Data File: /chem3/nt4.i/20071101.b/lr71a2.d

Date : 01-NOV-2007 16:39

Client ID:

Instrument: nt4.i

Sample Info: LR71ARE

Volume Injected (uL): 1.0

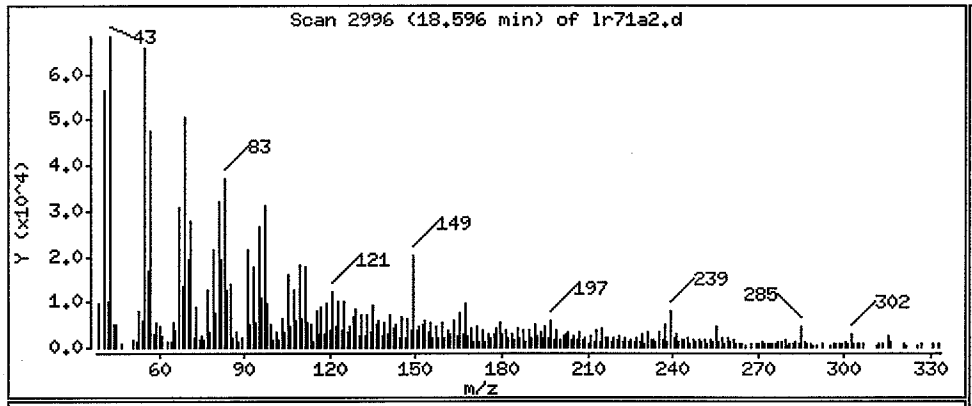
Operator: VTS

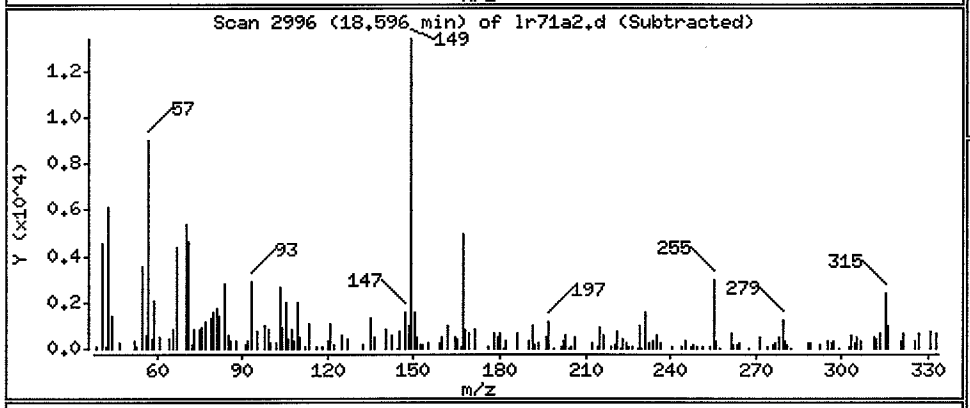
Column phase: ZB-5

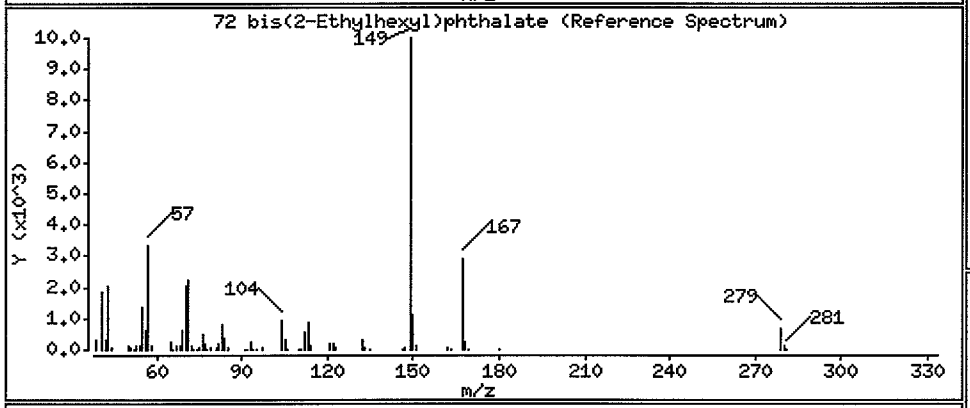
Column diameter: 0.32

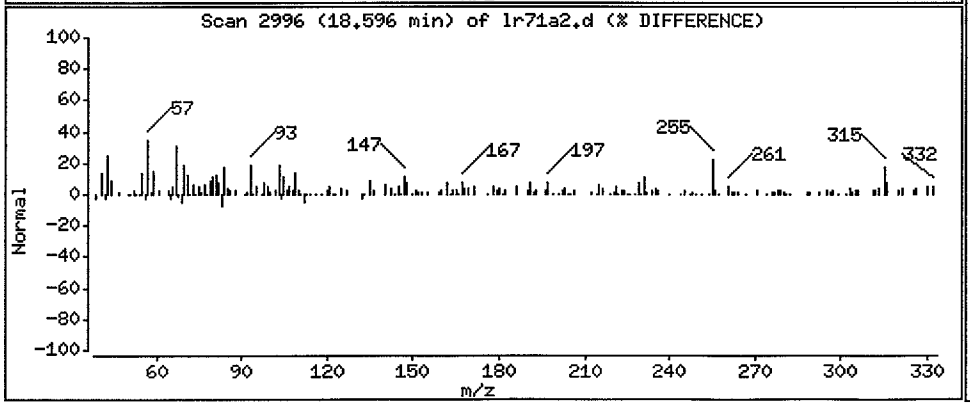
72 bis(2-Ethylhexyl)phthalate

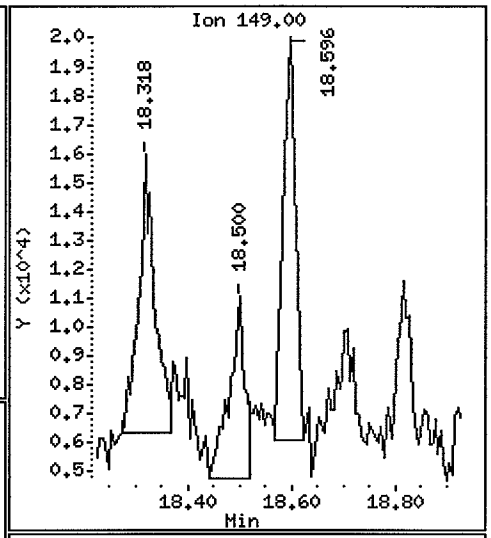
Concentration: 19.88 ug/Kg

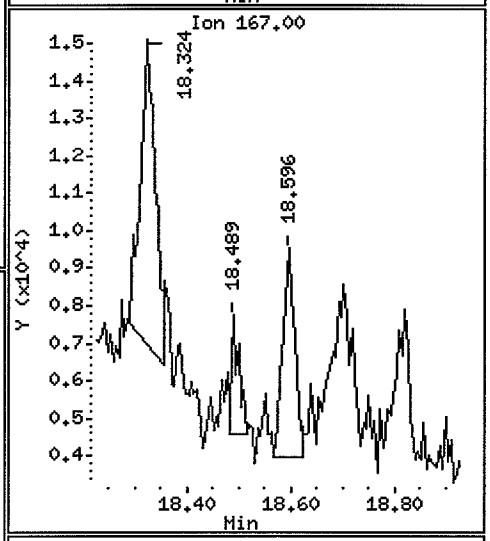


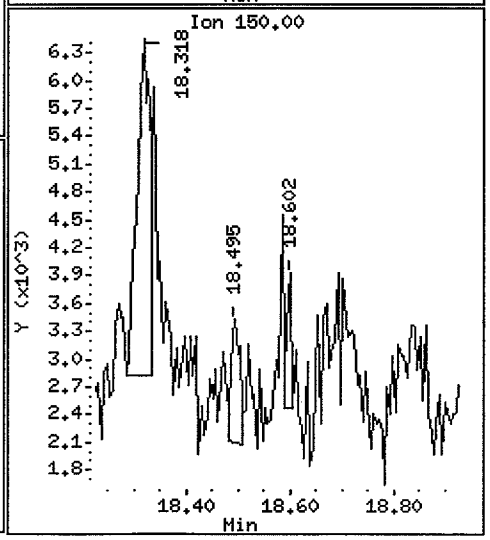












Data File: /chem3/nt4.i/20071101.b/lr71a2.d

Date : 01-NOV-2007 16:39

Client ID:

Instrument: nt4.i

Sample Info: LR71ARE

Volume Injected (uL): 1.0

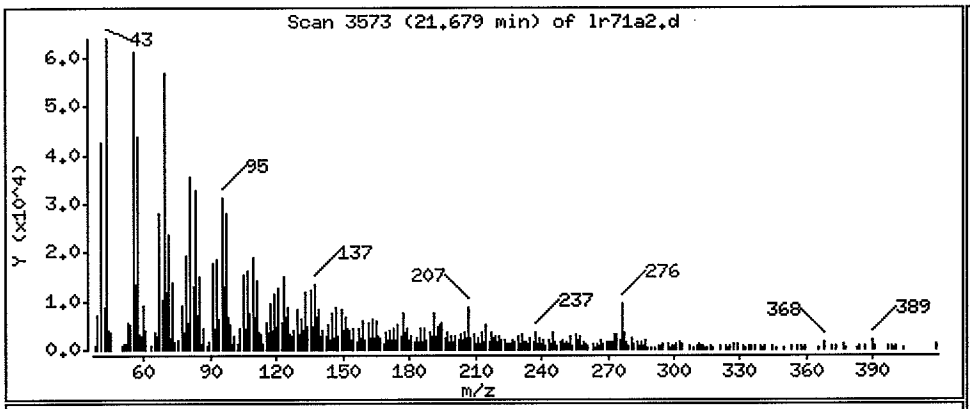
Operator: VTS

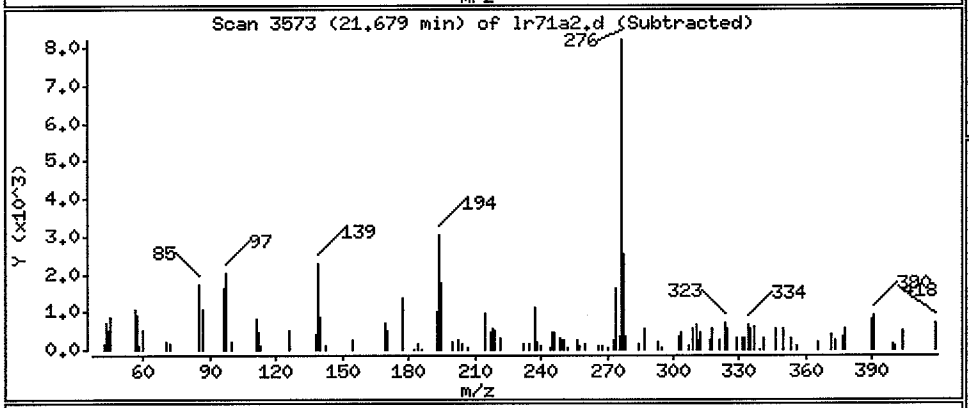
Column phase: ZB-5

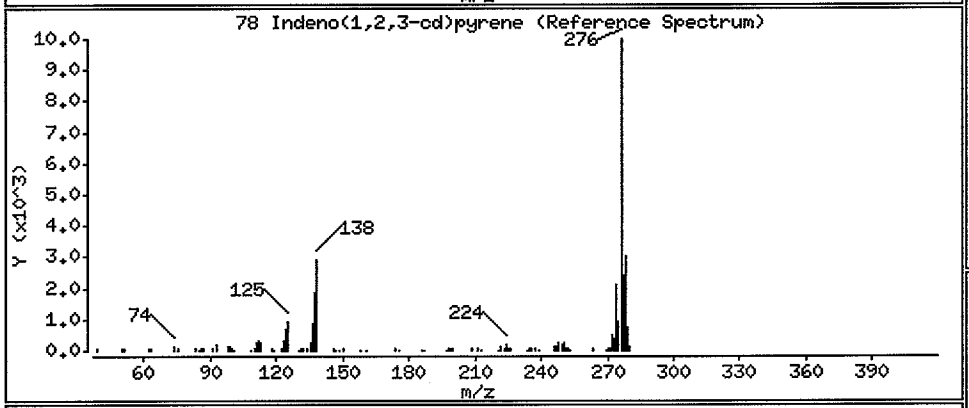
Column diameter: 0.32

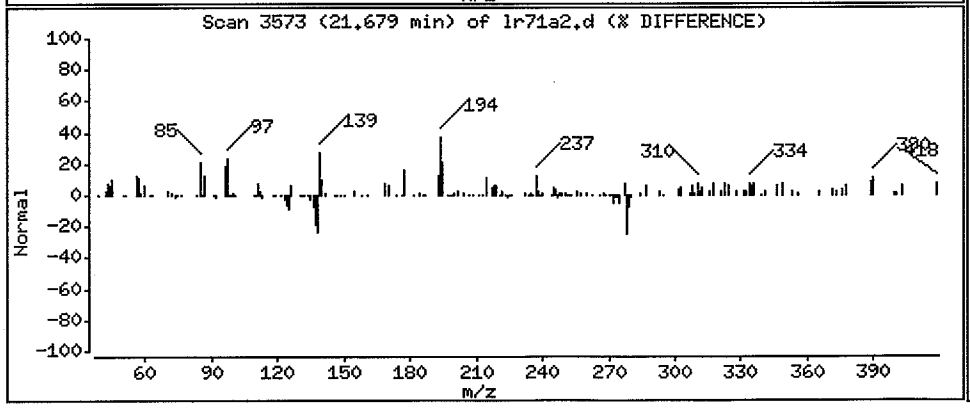
78 Indeno(1,2,3-cd)pyrene

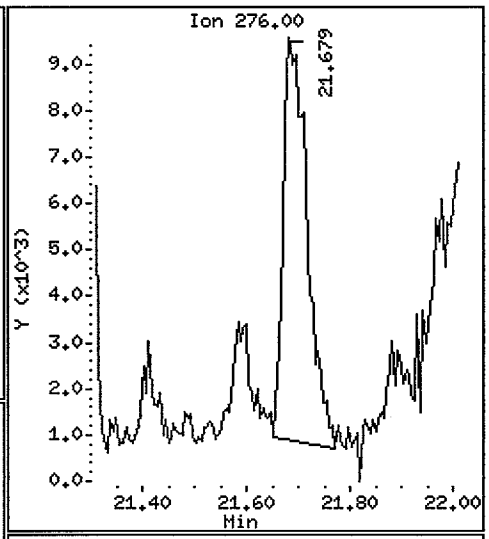
Concentration: 16.89 ug/Kg

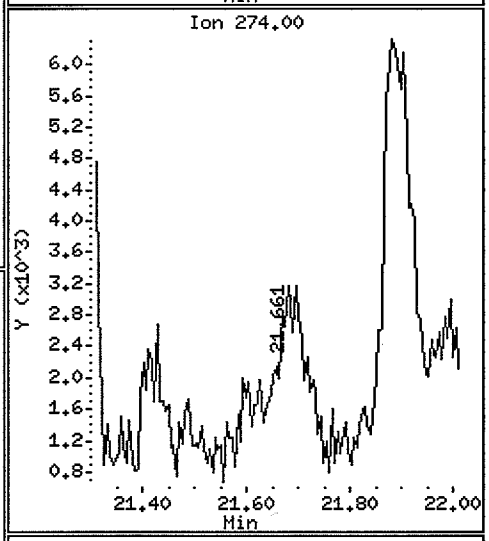


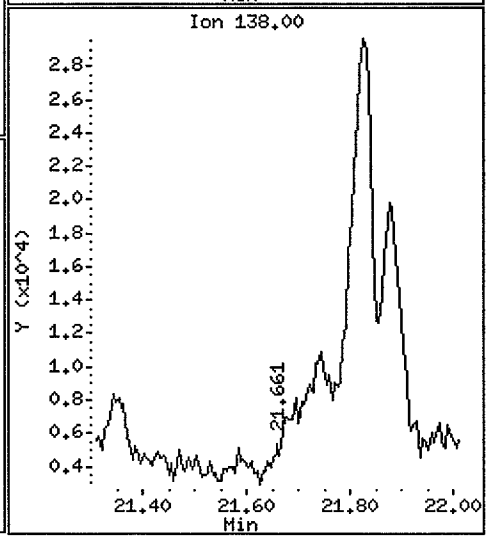












Data File: /chem3/nt4.i/20071101.b/lr71a2.d

Date : 01-NOV-2007 16:39

Client ID:

Instrument: nt4.i

Sample Info: LR71ARE

Volume Injected (uL): 1.0

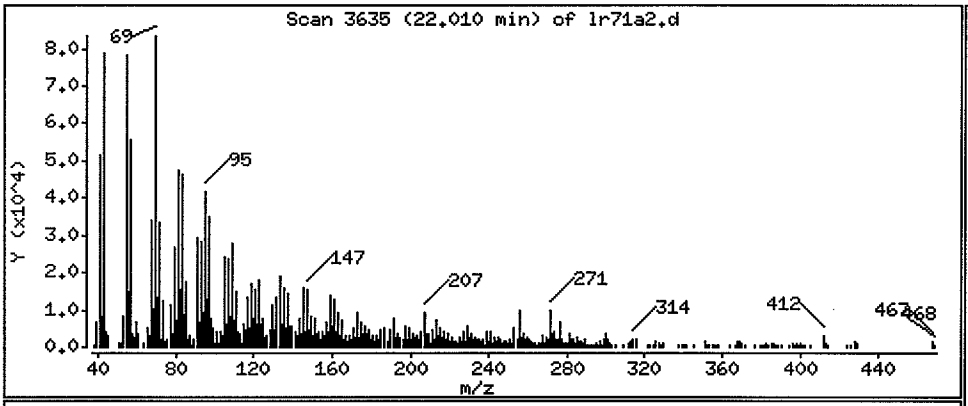
Operator: VTS

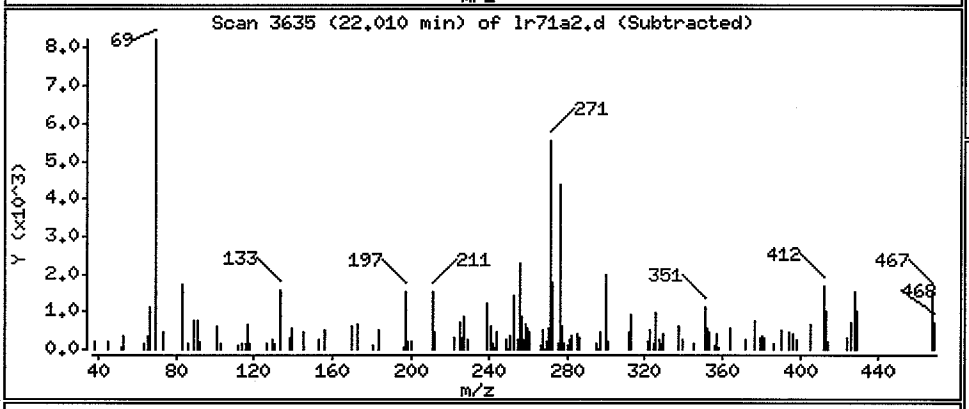
Column phase: ZB-5

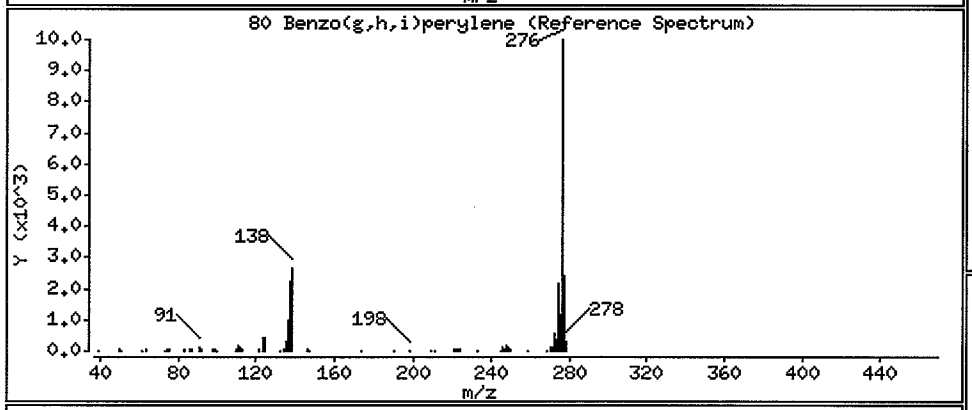
Column diameter: 0.32

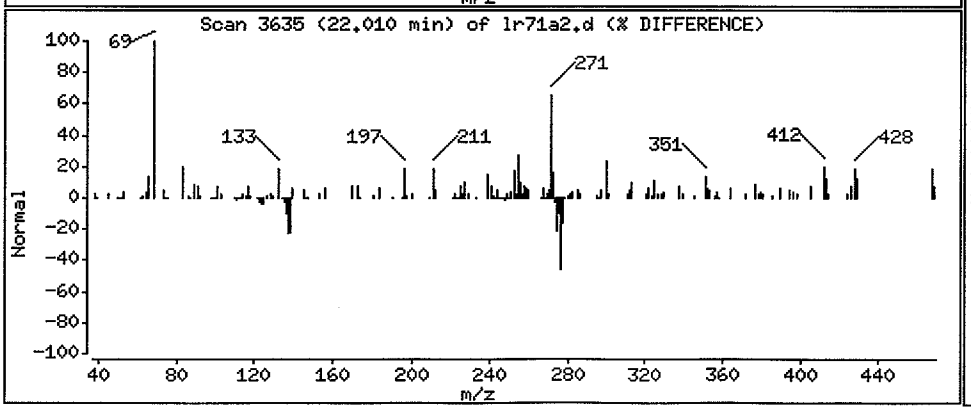
80 Benzo(g,h,i)perylene

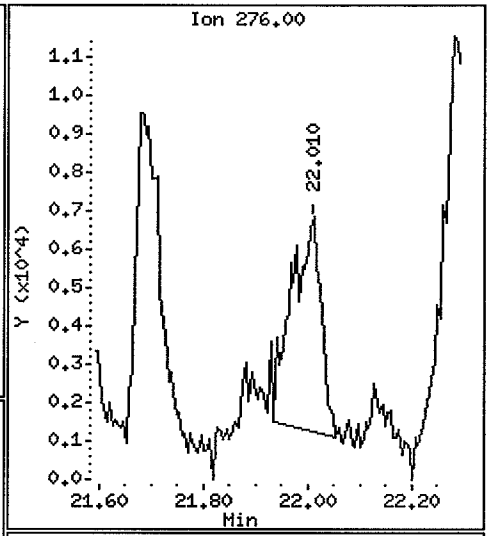
Concentration: 14.50 ug/Kg

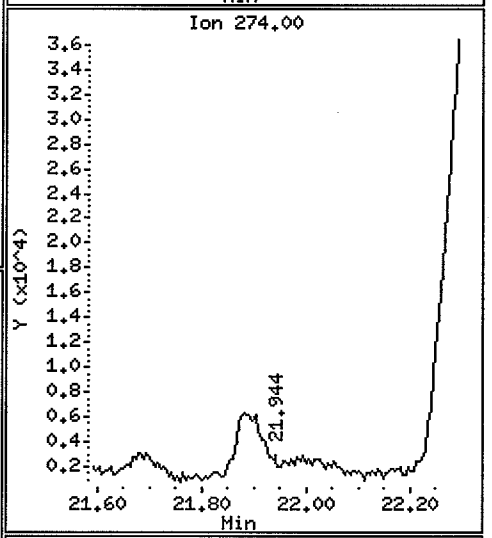


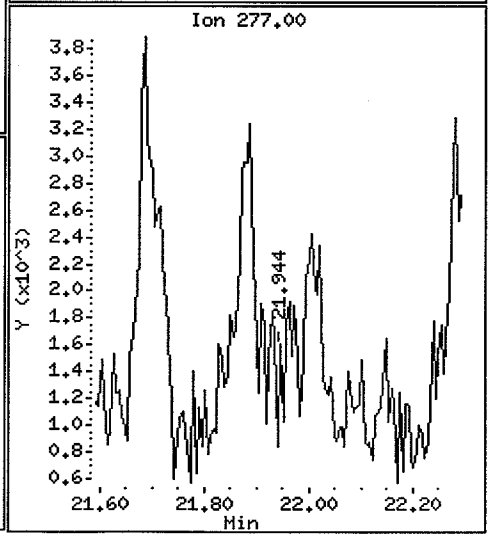












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-02-070927**
Page 1 of 2 **SAMPLE**

Lab Sample ID: LR71B
LIMS ID: 07-20767
Matrix: Sediment
Data Release Authorized:
Reported: 01/25/08

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA
Date Sampled: 09/27/07
Date Received: 09/29/07

Date Extracted: 10/10/07
Date Analyzed: 10/18/07 15:13
Instrument/Analyst: NT6/LJR
GPC Cleanup: Yes

Sample Amount: 50.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 50.3%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	**4-Methylphenol**	**20**	**180**
67-72-1	Hexachloroethane	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	10	< 10 UJ
91-20-3	**Naphthalene**	**20**	**47**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	**2-Methylnaphthalene**	**20**	**25**
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	**Dibenzofuran**	**20**	**39**
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**24**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	10	< 10 UJ
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	**Phenanthrene**	**20**	**400**
120-12-7	**Anthracene**	**20**	**20**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**410**
129-00-0	**Pyrene**	**20**	**290**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**56**
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	**Chrysene**	**20**	**110**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**88**
207-08-9	**Benzo(k)fluoranthene**	**20**	**73**
50-32-8	**Benzo(a)pyrene**	**20**	**75**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**20**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270D GC/MS **Sample ID: AN-SS-02-070927**
 SAMPLE

Lab Sample ID: LR71B
LIMS ID: 07-20767
Matrix: Sediment
Date Analyzed: 10/18/07 15:13

QC Report No: LR71-Anchor Environmental, LLC
Project: Kimberly Clark Anacortes
NA

CAS Number	Analyte	RL	Result
90-12-0	1-Methylnaphthalene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	48.8%	2-Fluorobiphenyl	49.2%
d14-p-Terphenyl	64.0%	d4-1,2-Dichlorobenzene	44.8%
d5-Phenol	54.9%	2-Fluorophenol	63.2%
2,4,6-Tribromophenol	63.7%	d4-2-Chlorophenol	54.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20071018.b/lr71b.d
Lab Smp Id: LR71B Client Smp ID: AN-SS-02-070927
Inj Date : 18-OCT-2007 15:13
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : LR71B
Misc Info : 07-20767
Comment : 1ul Injection
Method : /chem1/nt6.i/20071018.b/SW846.m
Meth Date : 25-Oct-2007 15:32 jeff Quant Type: ISTD
Cal Date : 01-OCT-2007 13:12 Cal File: 0051001.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 10/25/07

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	101.00000	Weight of sample extracted (g)
M	50.30000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 1	2-Fluorophenol	112	5.980	5.917	(0.756)	345044	23.6734	471.6
$ 2	Phenol-d5	99	7.503	7.488	(0.948)	382746	20.5568	409.5
3	Phenol	94	7.524	7.504	(0.951)	11843	0.51324 LDC	10.22
$ 5	2-Chlorophenol-d4	132	7.615	7.600	(0.962)	252553	20.3660	405.7
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	7.914	7.904	(1.000)	197786	20.0000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	8.213	8.204	(1.038)	104530	11.2408	223.9
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	8.683	8.674	(1.097)	125711	9.05077	180.3
$	18 Nitrobenzene-d5	82	8.849	8.845	(0.887)	262601	12.2309	243.7
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	9.971	9.961	(1.000)	668243	20.0000	
	28 Naphthalene	128	10.003	9.999	(1.003)	96695	2.34747	46.77
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	11.130	11.126	(1.116)	25696	1.24154	24.73
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.787	11.777	(0.917)	409647	12.2721	244.5
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	12.599	12.584	(0.980)	36147	0.82223 LDL	16.38
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.856	12.841	(1.000)	428728	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	12.904	12.894	(1.004)	19214	0.69248 LDL	13.80
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	13.165	13.156	(1.024)	76916	1.97867	39.42
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	13.726	13.711	(1.068)	36406	1.18572	23.62
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	14.154	14.139	(1.101)	99358	23.8866	475.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.243	15.223	(1.000)	772764	20.0000	
	60 Phenanthrene	178	15.281	15.261	(1.002)	985216	19.8708	395.9
	61 Anthracene	178	15.350	15.335	(1.007)	50219	1.01155	20.15 (M)
	62 Carbazole	167	15.639	15.624	(1.026)	33387	0.75604 LDL	15.06
	63 Di-n-butylphthalate	149	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	64 Fluoranthene	202	17.241	17.205	(1.131)	1161478	20.4848	408.1	
	65 Pyrene	202	17.594	17.563	(0.898)	972729	14.6003	290.9	
$	66 Terphenyl-d14	244	17.915	17.884	(0.914)	668971	16.0418	319.6	
	67 Butylbenzylphthalate	149	Compound Not Detected.						
	68 Benzo(a)anthracene	228	19.571	19.529	(0.999)	204503	2.81367	56.05	
*	69 Chrysene-d12	240	19.597	19.556	(1.000)	927641	20.0000		(M)
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.						
	71 Chrysene	228	19.635	19.598	(1.002)	370632	5.67448	113.0	
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.						
*	134 Di-n-octylphthalate-d4	153	20.762	20.720	(1.000)	1267104	20.0000		
	73 Di-n-octylphthalate	149	Compound Not Detected.						
	74 Benzo(b)fluoranthene	252	21.248	21.190	(0.976)	220387	4.42280	88.11	(M)
	75 Benzo(k)fluoranthene	252	21.259	21.228	(0.976)	194204	3.68425	73.40	(M)
	76 Benzo(a)pyrene	252	21.691	21.639	(0.996)	171874	3.75740	74.85	
*	77 Perylene-d12	264	21.772	21.719	(1.000)	693915	20.0000		
	78 Indeno(1,2,3-cd)pyrene	276	23.257	23.215	(1.068)	54397	1.00272	19.98	(M)
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
	80 Benzo(g,h,i)perylene	276	23.657	23.616	(1.087)	45369	0.83631 LOQ	16.66	
	90 N-Nitrosodimethylamine	74	Compound Not Detected.						
	91 Aniline	93	Compound Not Detected.						
	93 Benzidine	184	Compound Not Detected.						
	103 Pyridine	79	Compound Not Detected.						
	105 1-methylnaphthalene	141	11.301	11.297	(1.133)	17782	0.86155 LOQ	17.16	
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.						

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: lr71b.d
Lab Smp Id: LR71B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20767

Calibration Date: 18-OCT-2007
Calibration Time: 10:07
Client Smp ID: AN-SS-02-070927
Level: LOW
Sample Type: Sediment

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	212076	106038	424152	197786	-6.74
27 Naphthalene-d8	656578	328289	1313156	668243	1.78
42 Acenaphthene-d10	353705	176852	707410	428728	21.21
59 Phenanthrene-d10	526440	263220	1052880	772764	46.79
69 Chrysene-d12	581923	290962	1163846	927641	59.41
134 Di-n-octylphthala	979097	489548	1958194	1267104	29.42
77 Perylene-d12	686531	343266	1373062	693915	1.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.90	7.40	8.40	7.91	0.12
27 Naphthalene-d8	9.96	9.46	10.46	9.97	0.10
42 Acenaphthene-d10	12.84	12.34	13.34	12.86	0.12
59 Phenanthrene-d10	15.22	14.72	15.72	15.24	0.13
69 Chrysene-d12	19.56	19.06	20.06	19.60	0.21
134 Di-n-octylphthala	20.72	20.22	21.22	20.76	0.20
77 Perylene-d12	21.72	21.22	22.22	21.77	0.24

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: LR71B
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20071018.b/SW846.m
Misc Info: 07-20767

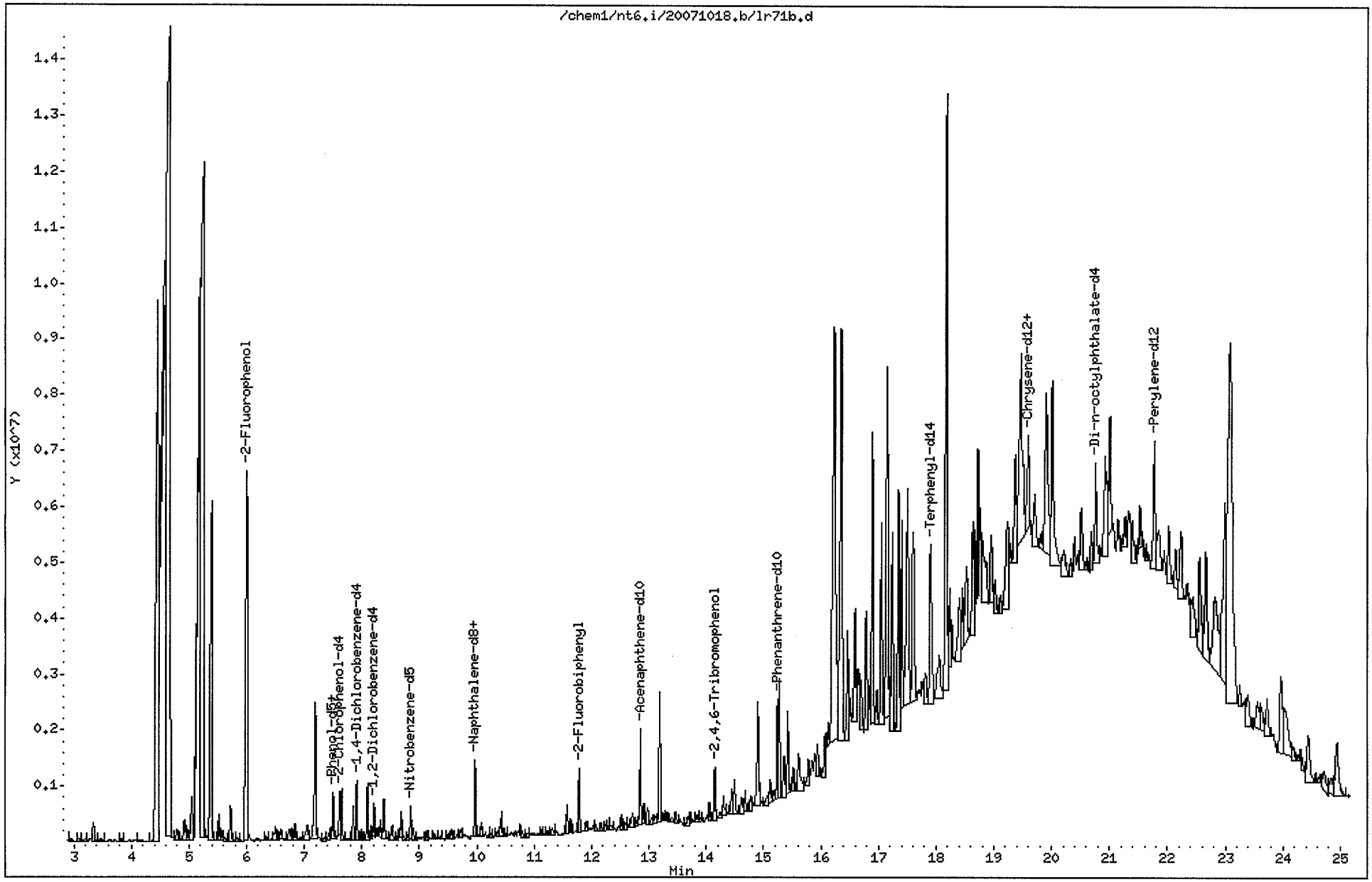
Client SDG: LR71
Fraction: SV
Client Smp ID: AN-SS-02-070927
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	747.1	471.6	63.13	11-84
$ 2 Phenol-d5	747.1	409.5	54.82	25-86
$ 5 2-Chlorophenol-d4	747.1	405.7	54.31	23-91
$ 10 1,2-Dichlorobenzen	498.0	223.9	44.96	24-90
$ 18 Nitrobenzene-d5	498.0	243.7	48.92	26-88
$ 36 2-Fluorobiphenyl	498.0	244.5	49.09	34-91
$ 55 2,4,6-Tribromophen	747.1	475.9	63.70	25-107
$ 66 Terphenyl-d14	498.0	319.6	64.17	22-100

Data File: /chem1/nt6.i/20071018.b/lr71b.d
Date : 18-OCT-2007 15:13
Client ID: AN-SS-02-070927
Sample Info: LR71B
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0230



Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

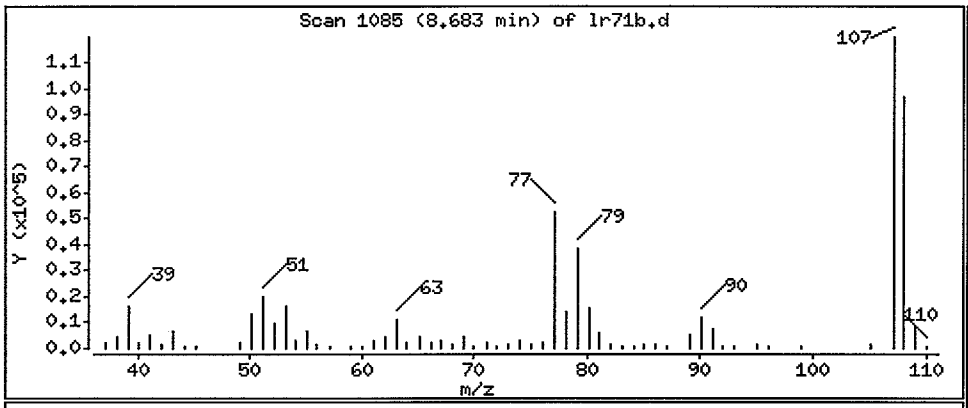
Client ID: AN-SS-02-070927 Instrument: nt6.i

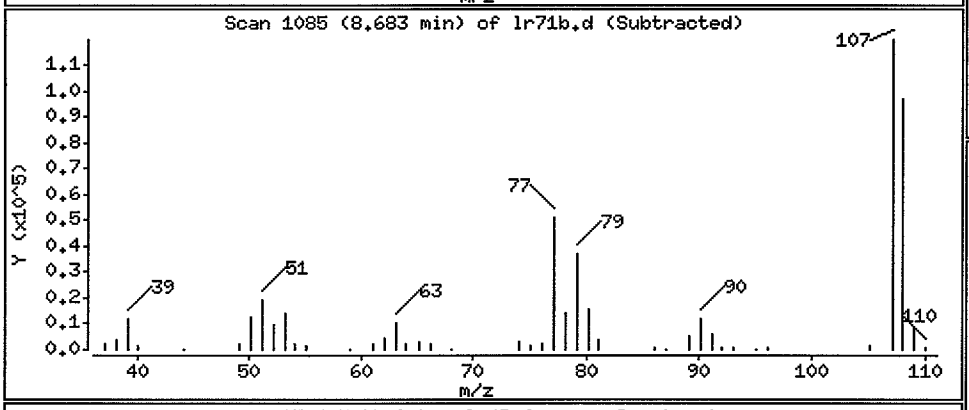
Sample Info: LR71B

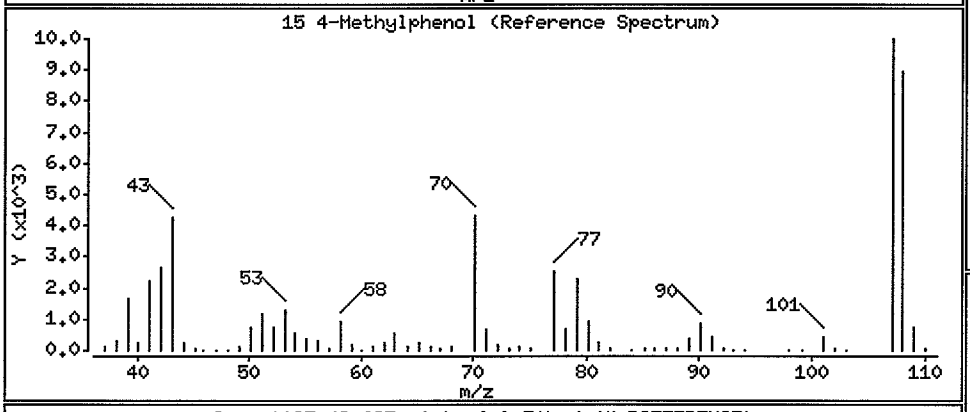
Volume Injected (uL): 1.0 Operator: LJR/VTS

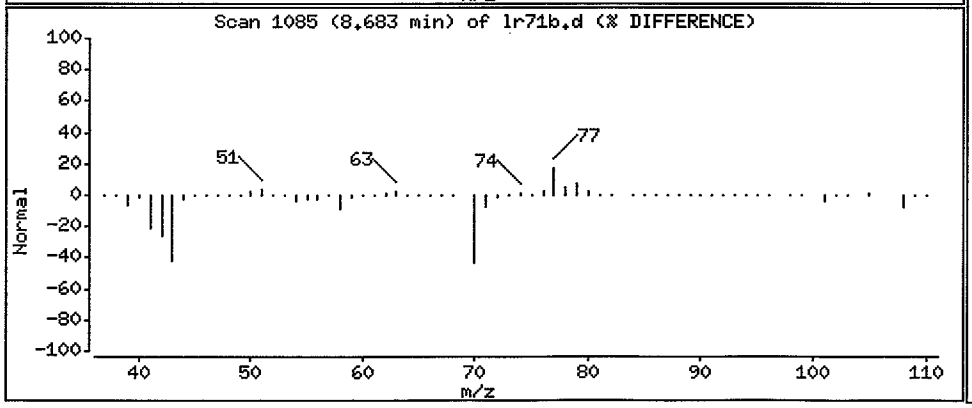
Column phase: ZB-5 Column diameter: 0.32

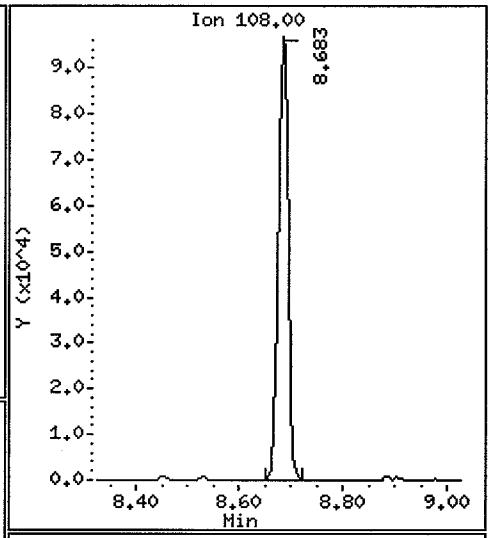
15 4-Methylphenol Concentration: 180.3 ug/kg

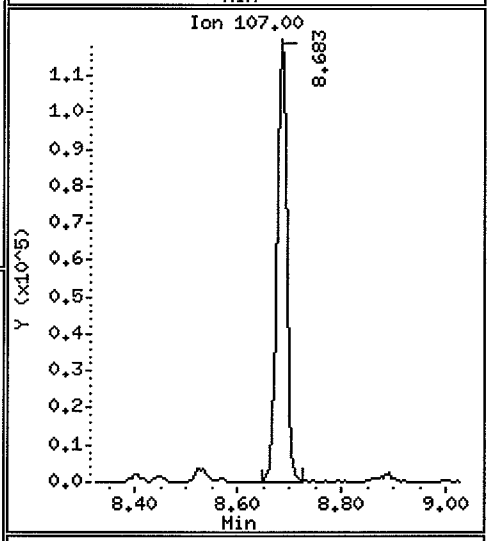


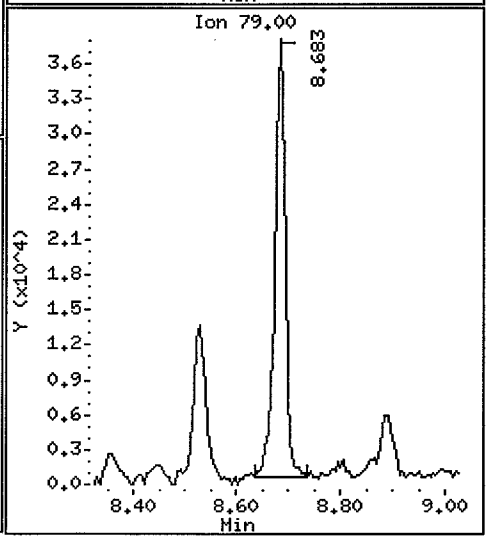












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

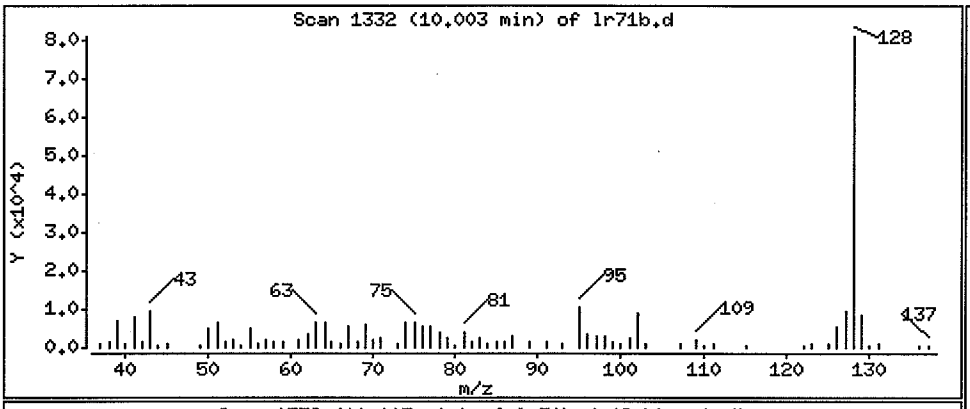
Client ID: AN-SS-02-070927 Instrument: nt6.i

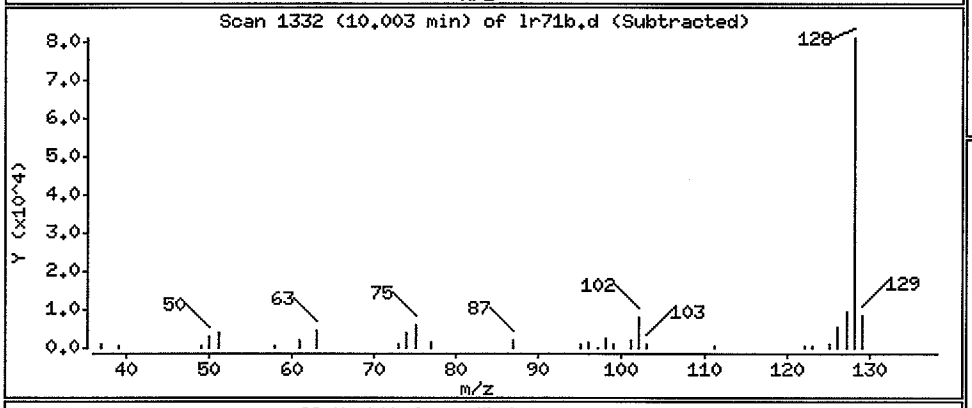
Sample Info: LR71B

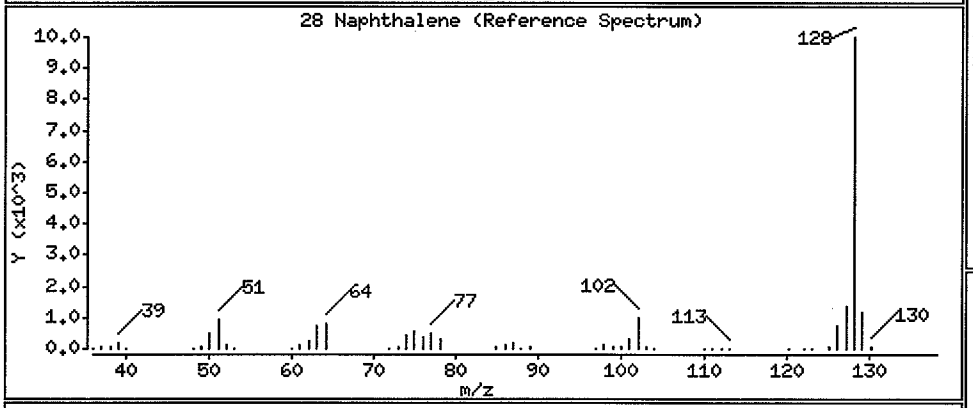
Volume Injected (uL): 1.0 Operator: LJR/VTS

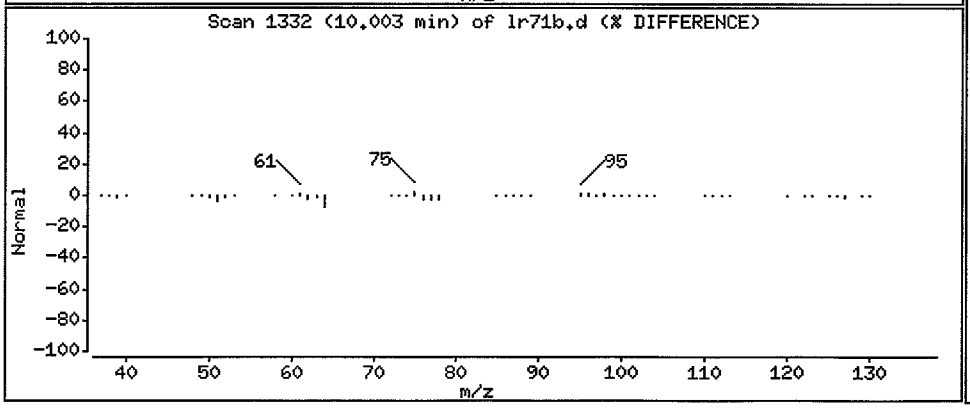
Column phase: ZB-5 Column diameter: 0.32

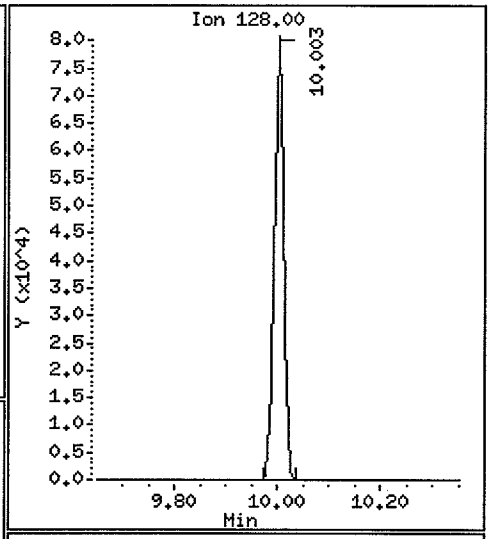
28 Naphthalene Concentration: 46.77 ug/kg

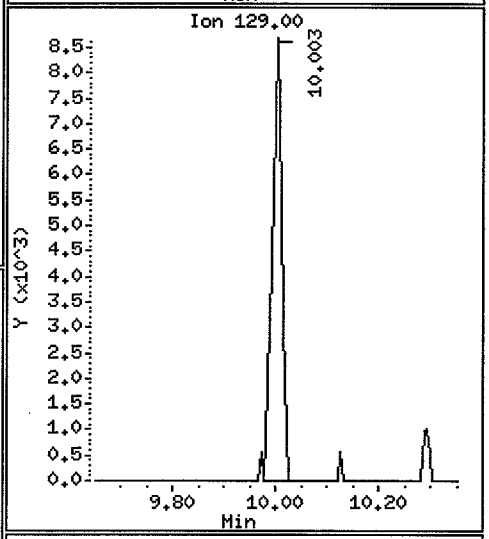


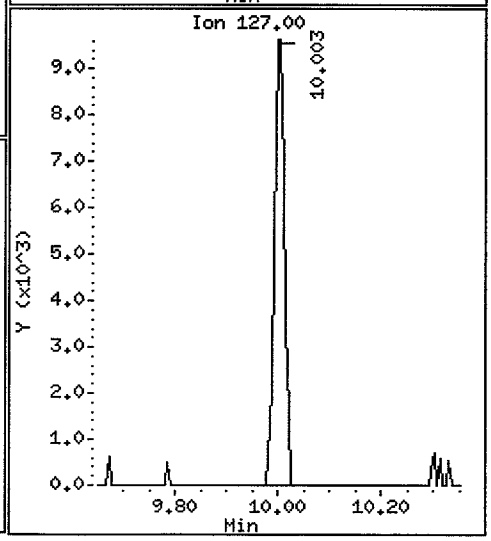












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

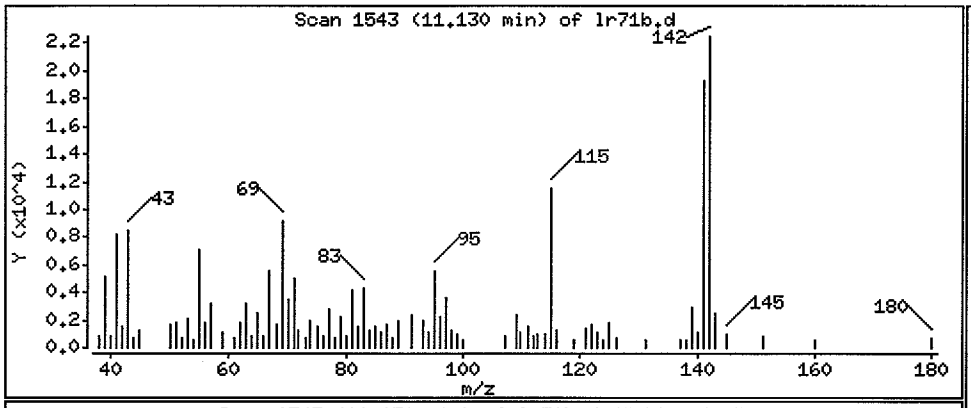
Client ID: AN-SS-02-070927 Instrument: nt6.i

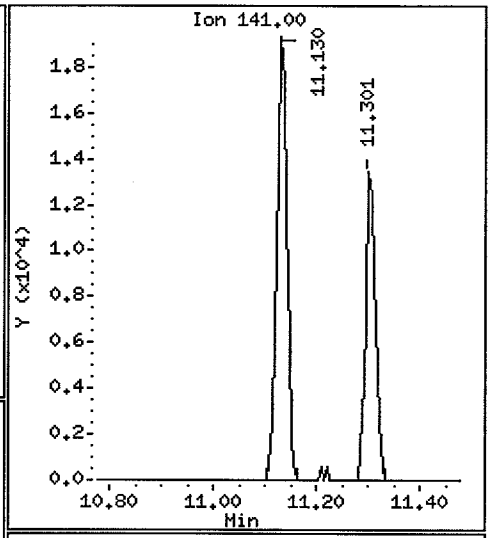
Sample Info: LR71B

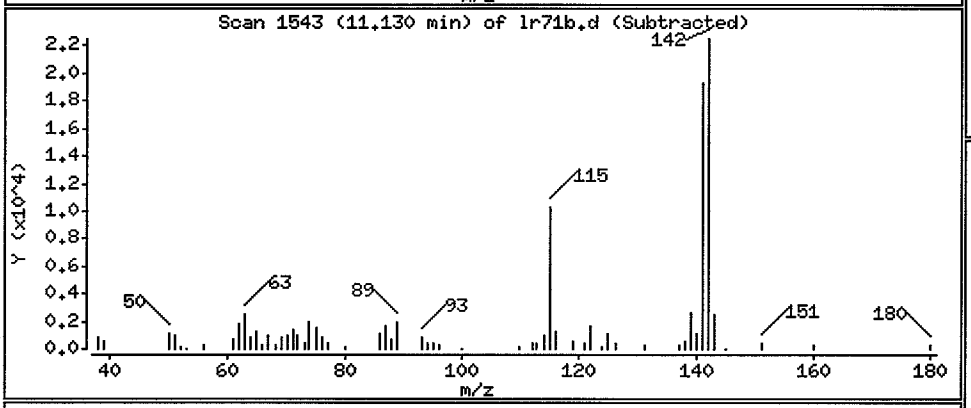
Volume Injected (uL): 1.0 Operator: LJR/VTS

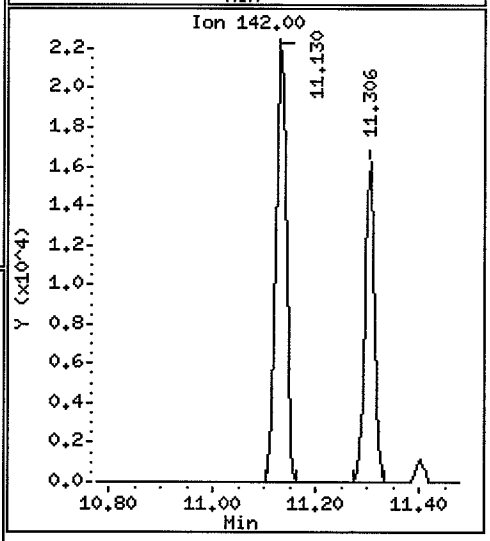
Column phase: ZB-5 Column diameter: 0.32

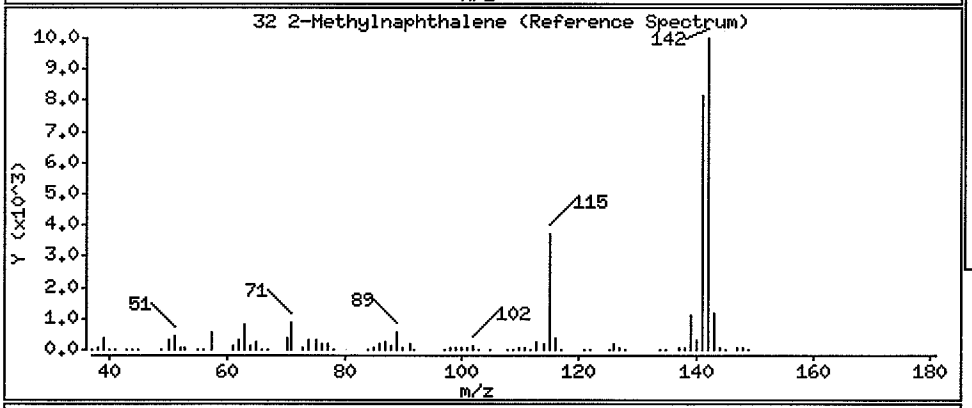
32 2-Methylnaphthalene Concentration: 24.73 ug/kg

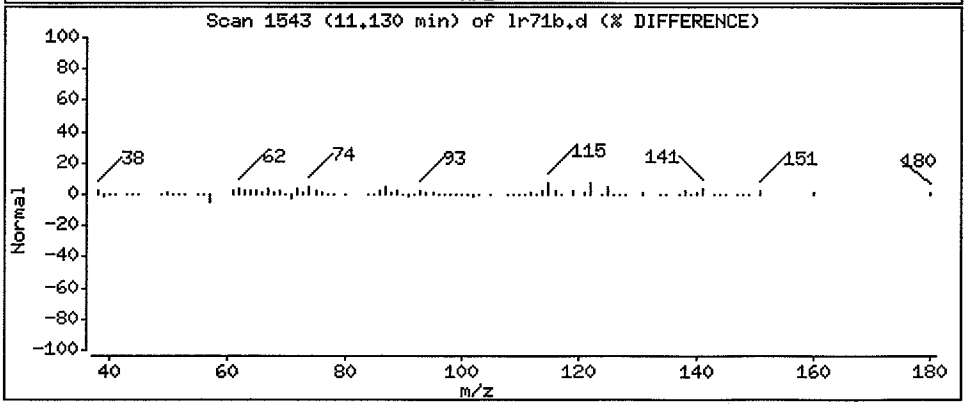












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

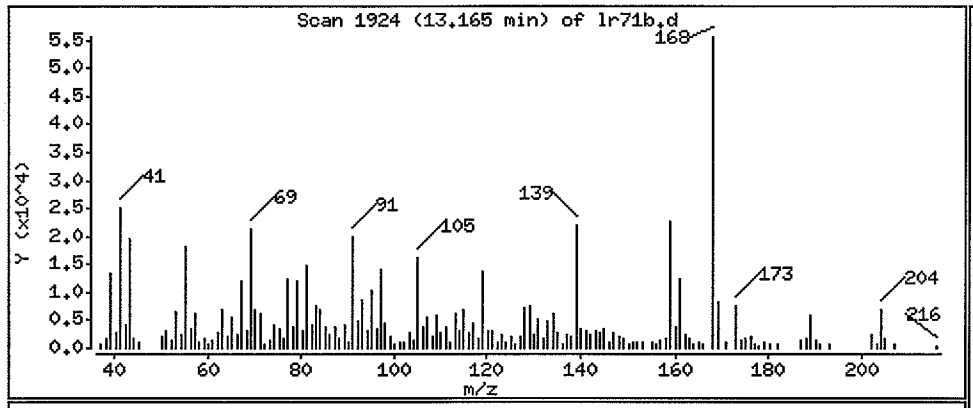
Client ID: AN-SS-02-070927 Instrument: nt6.i

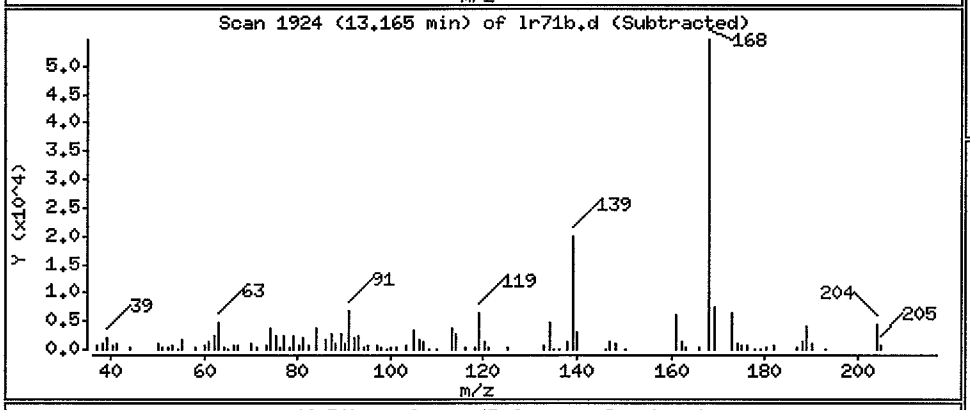
Sample Info: LR71B

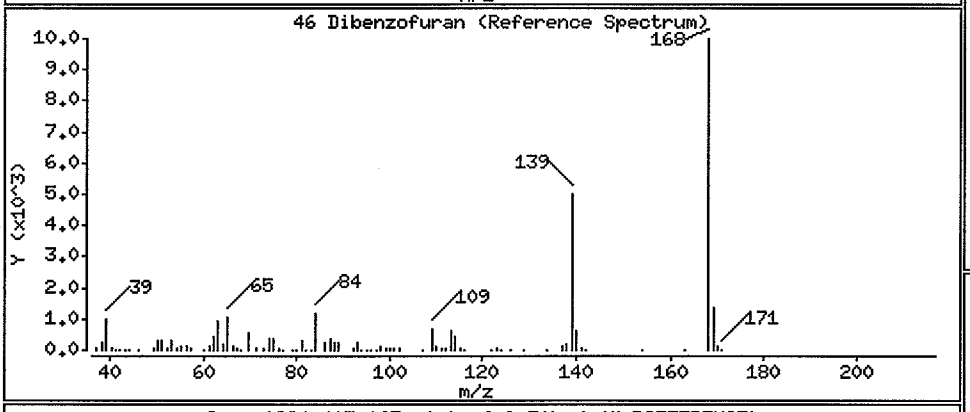
Volume Injected (uL): 1.0 Operator: LJR/VTS

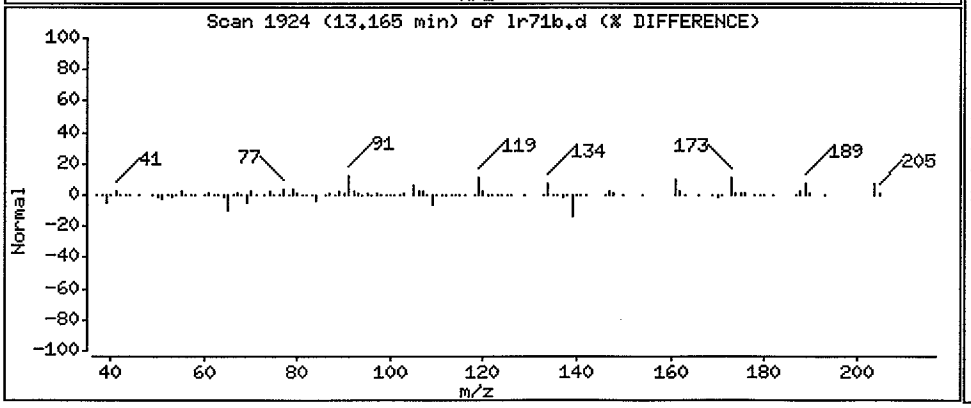
Column phase: ZB-5 Column diameter: 0.32

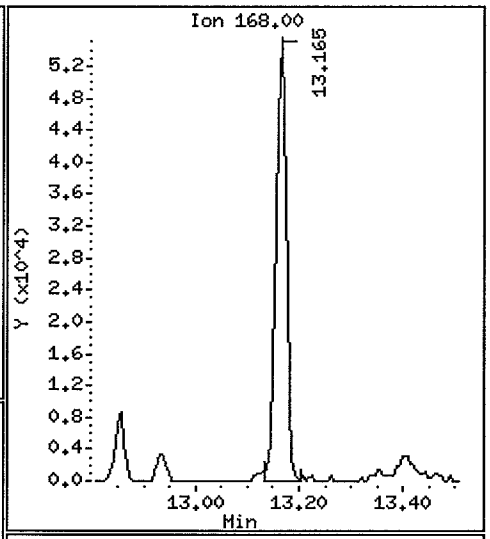
46 Dibenzofuran Concentration: 39.42 ug/kg

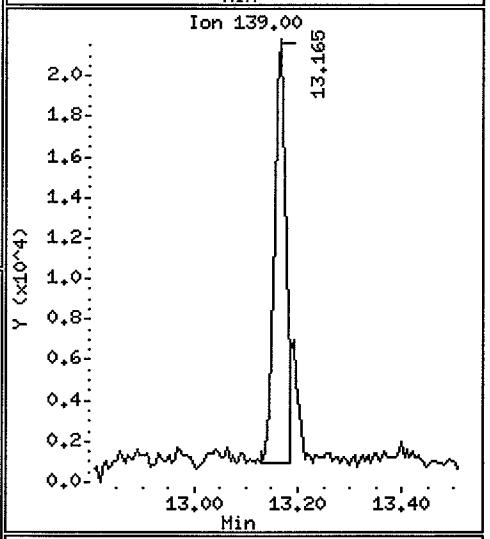


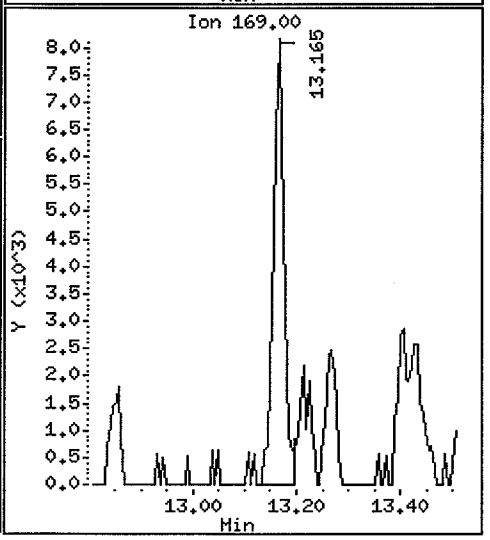












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

Client ID: AN-SS-02-070927

Instrument: nt6.i

Sample Info: LR71B

Volume Injected (uL): 1.0

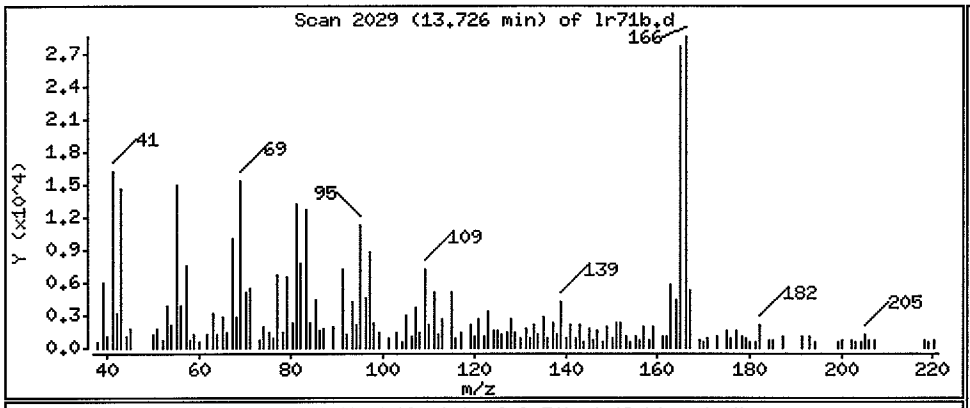
Operator: LJR/VTS

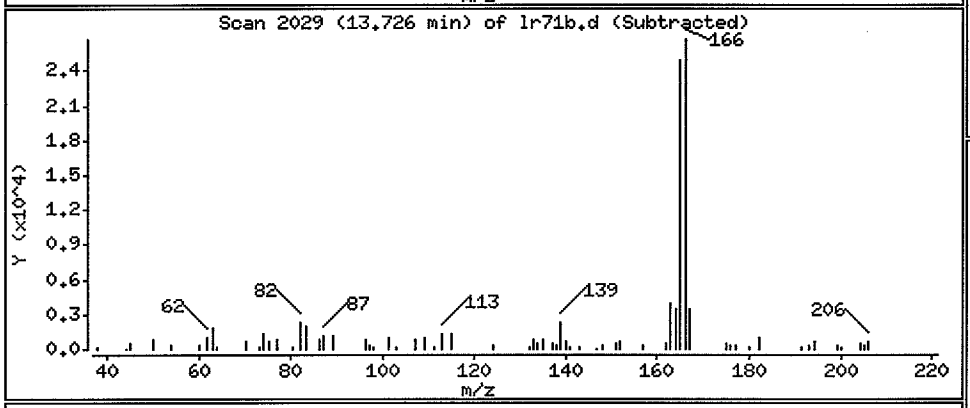
Column phase: ZB-5

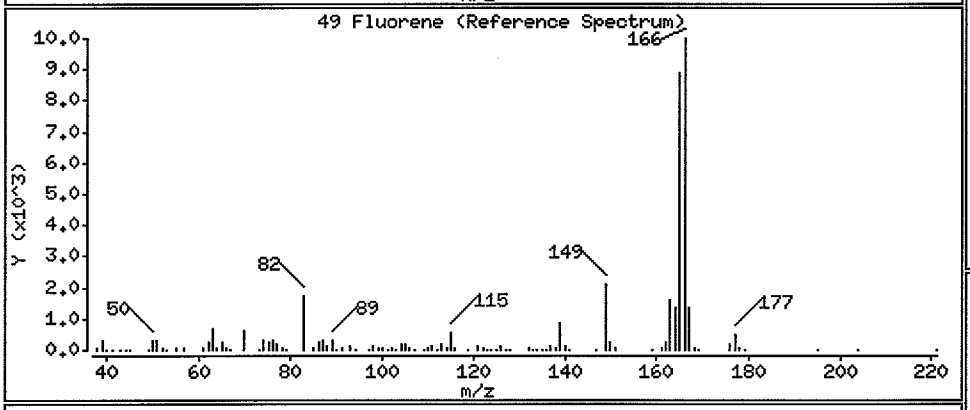
Column diameter: 0.32

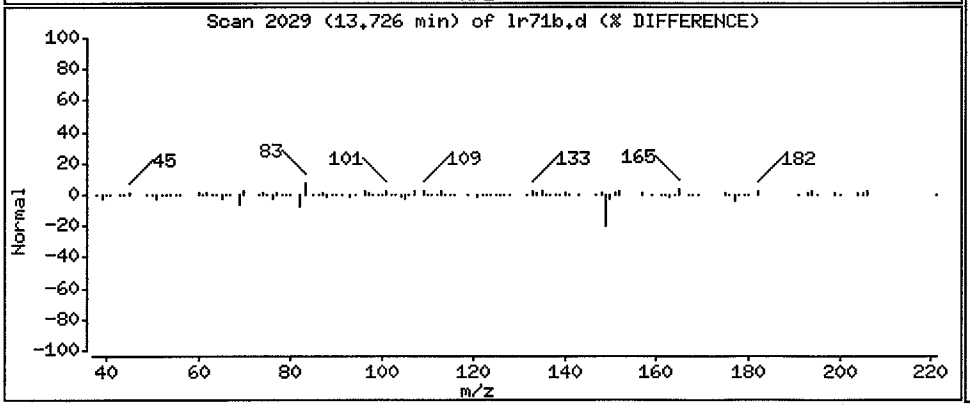
49 Fluorene

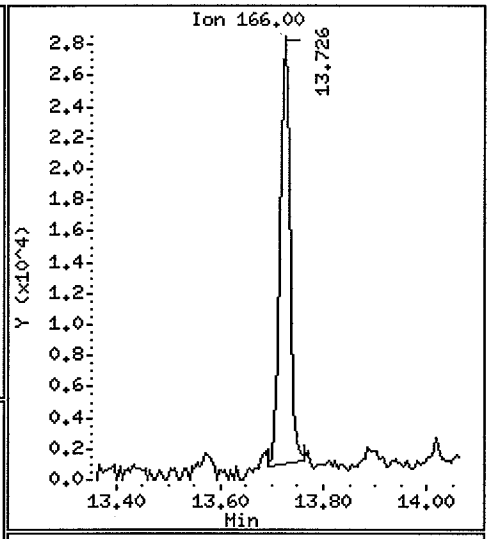
Concentration: 23.62 ug/kg

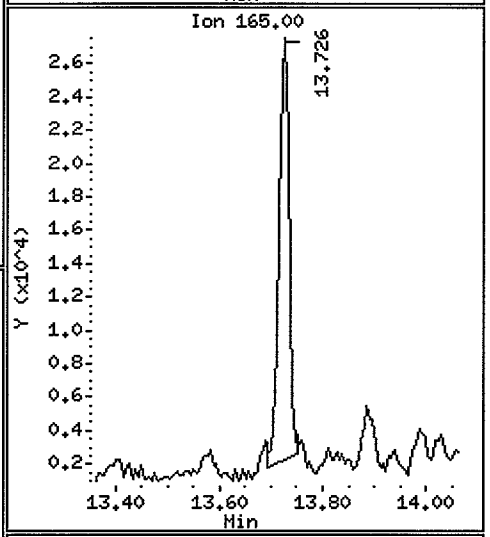


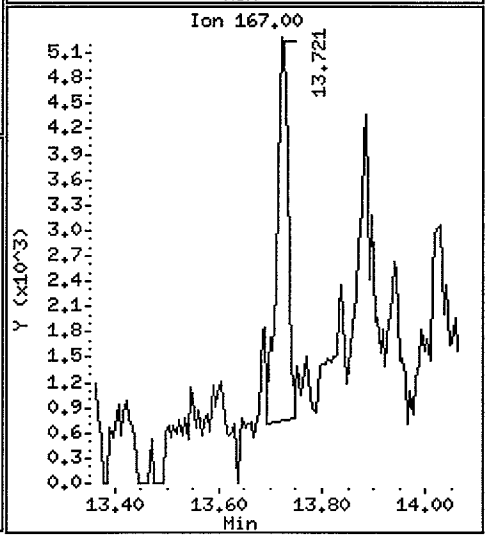












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

Client ID: AN-SS-02-070927

Instrument: nt6.i

Sample Info: LR71B

Volume Injected (uL): 1.0

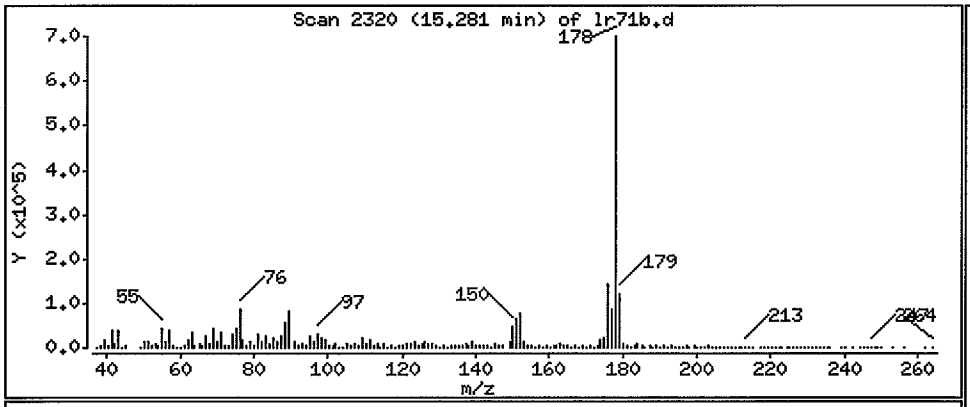
Operator: LJR/VTS

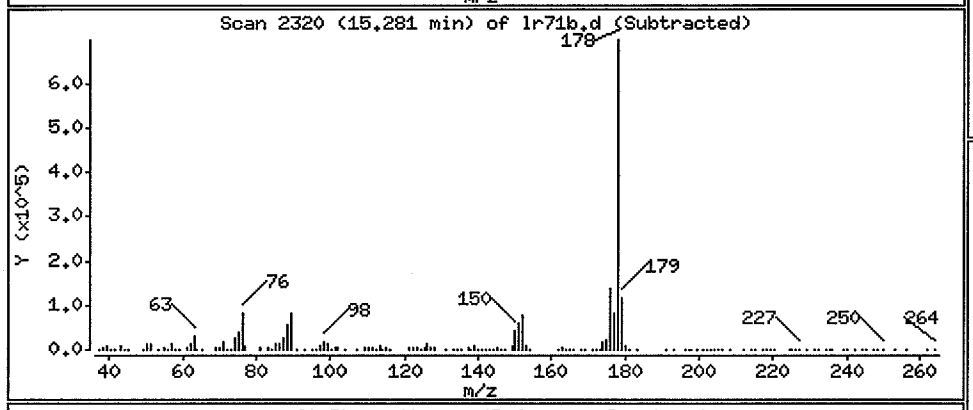
Column phase: ZB-5

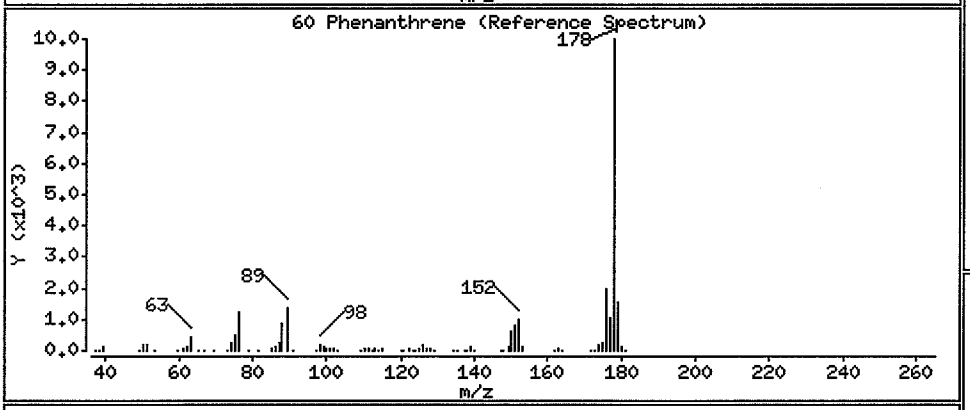
Column diameter: 0.32

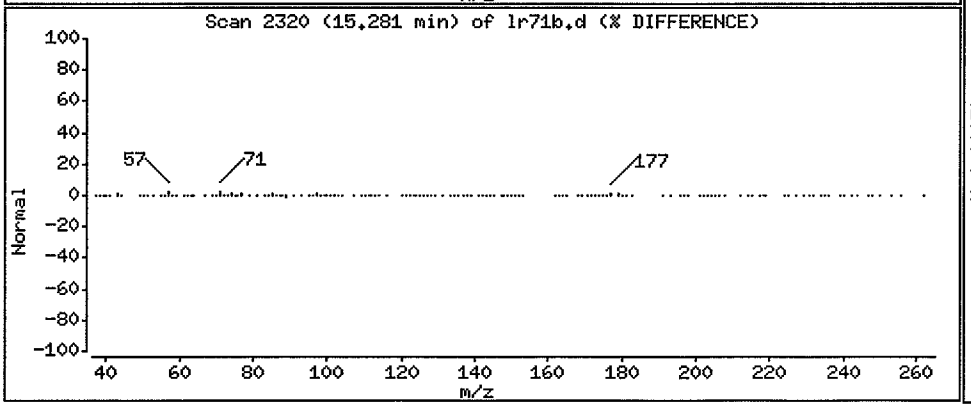
60 Phenanthrene

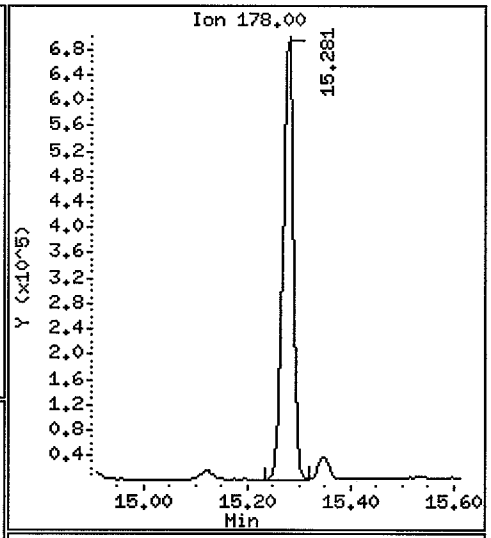
Concentration: 395.9 ug/kg

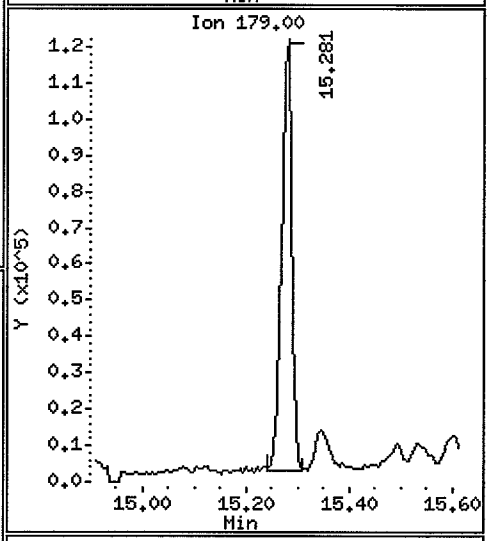


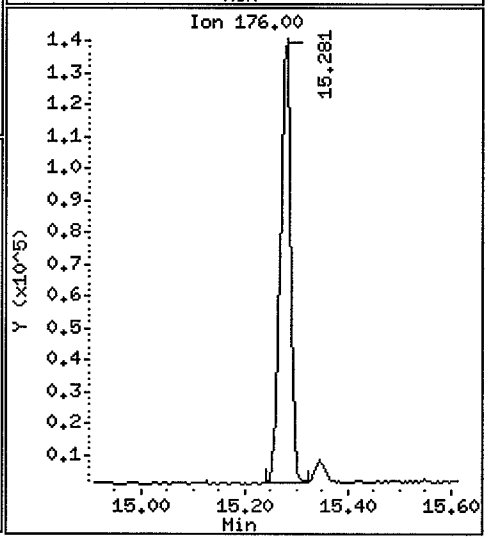












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

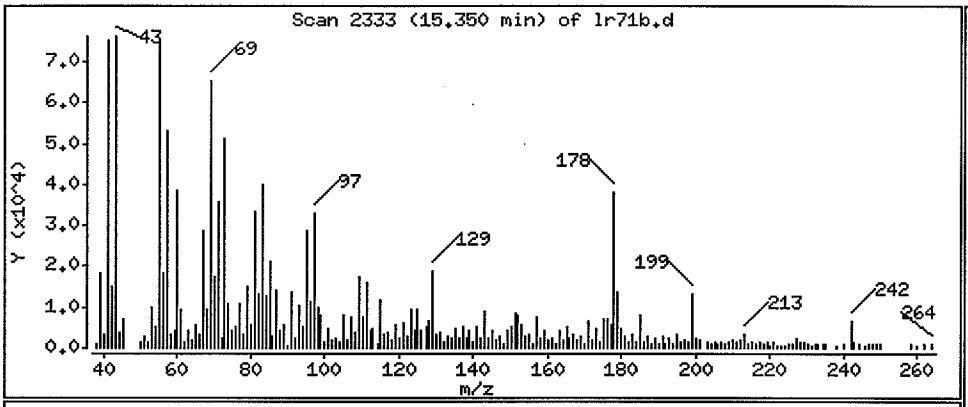
Client ID: AN-SS-02-070927 Instrument: nt6.i

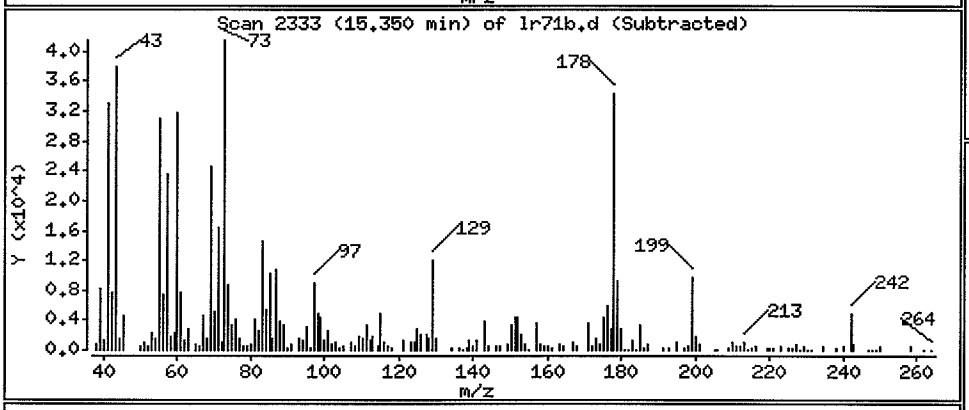
Sample Info: LR71B

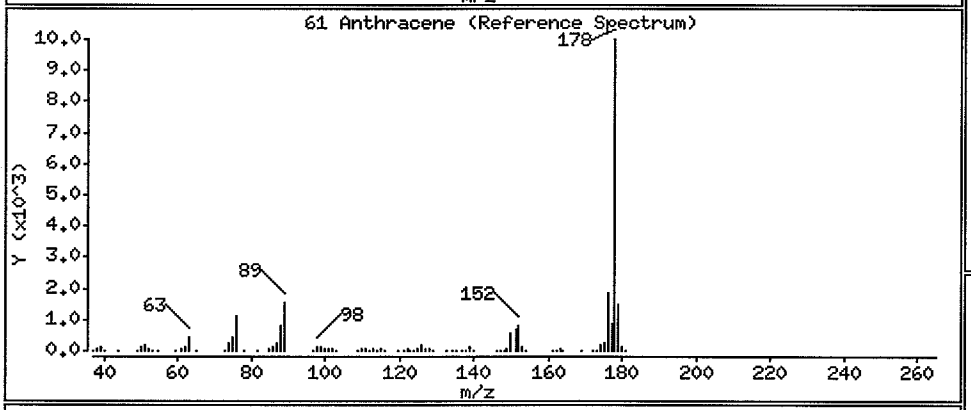
Volume Injected (uL): 1.0 Operator: LJR/VTS

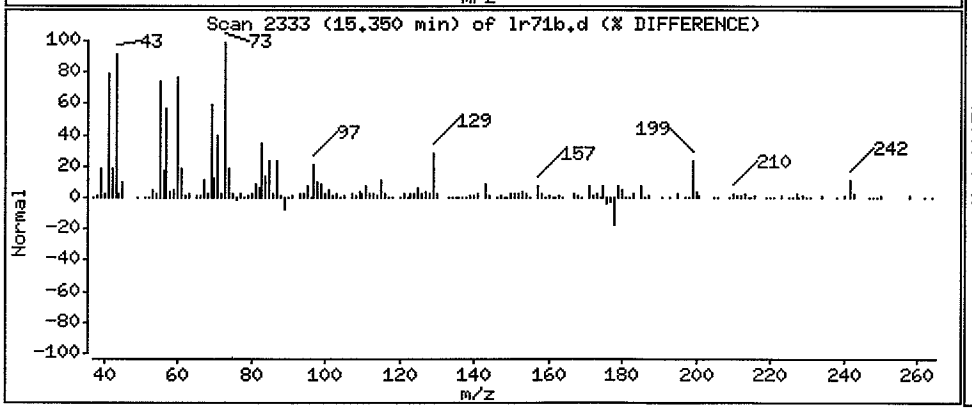
Column phase: ZB-5 Column diameter: 0.32

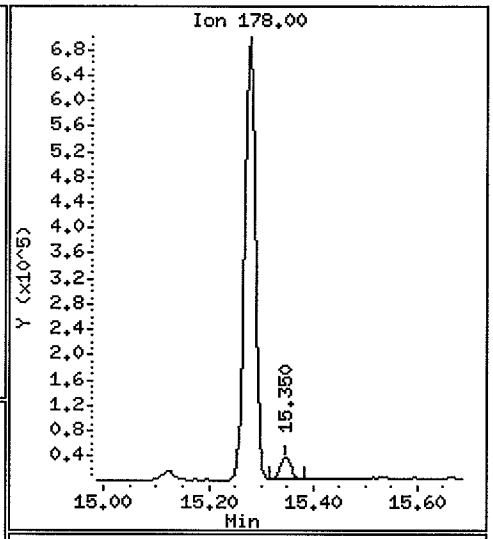
61 Anthracene Concentration: 20.15 ug/kg

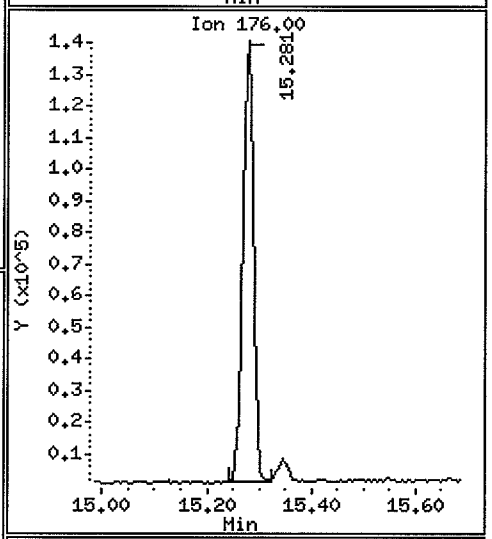


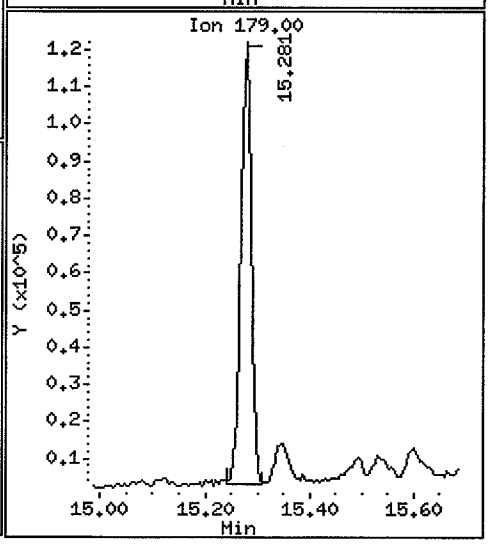












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

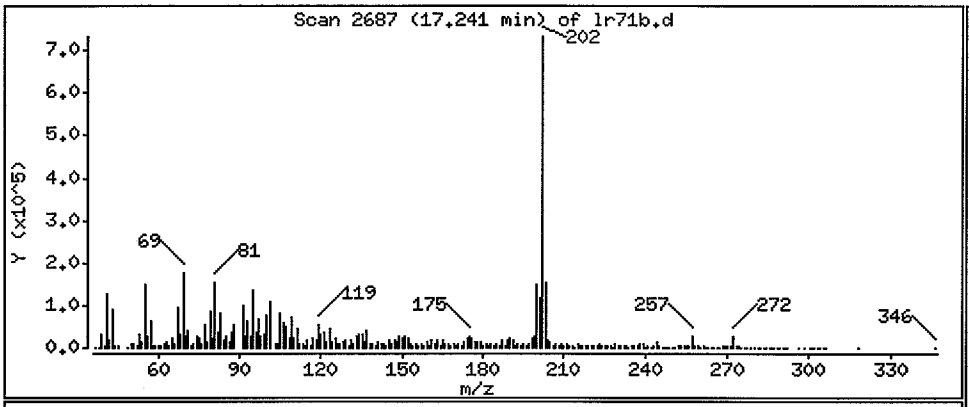
Client ID: AN-SS-02-070927 Instrument: nt6.i

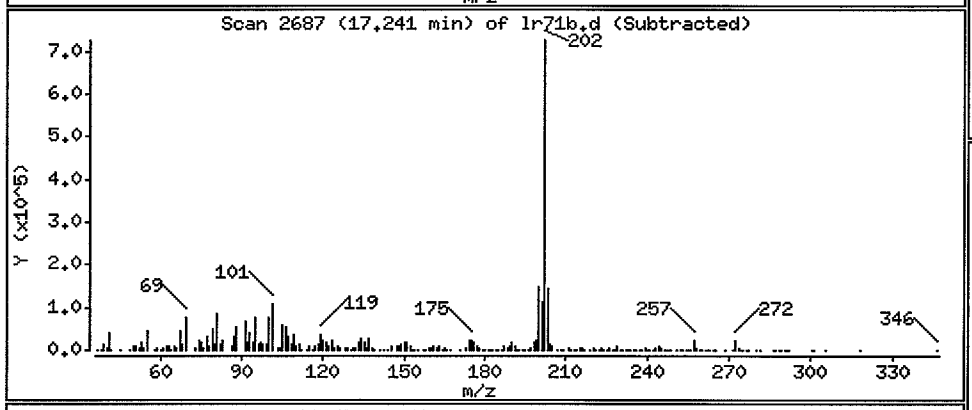
Sample Info: LR71B

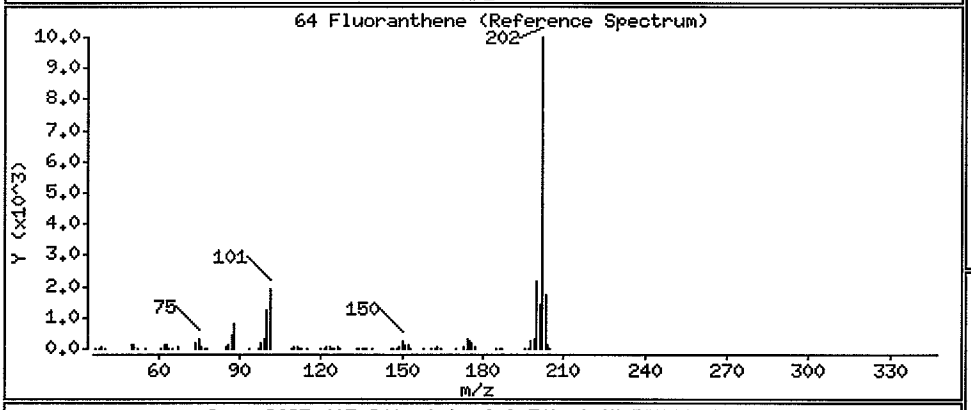
Volume Injected (uL): 1.0 Operator: LJR/VTS

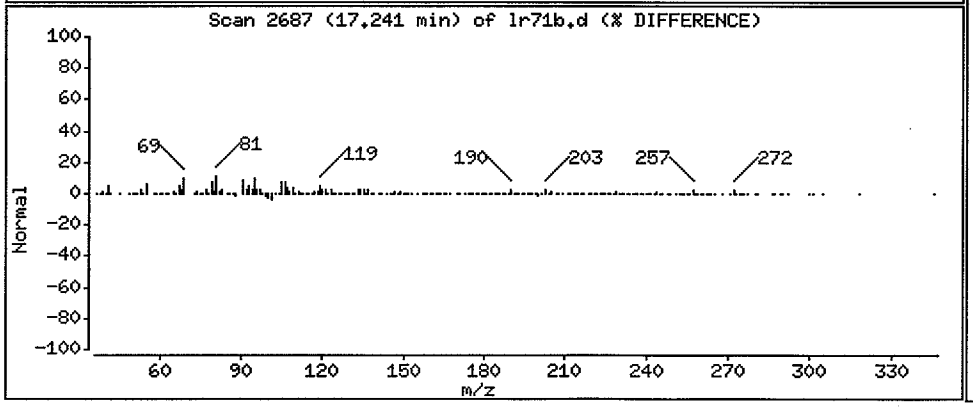
Column phase: ZB-5 Column diameter: 0.32

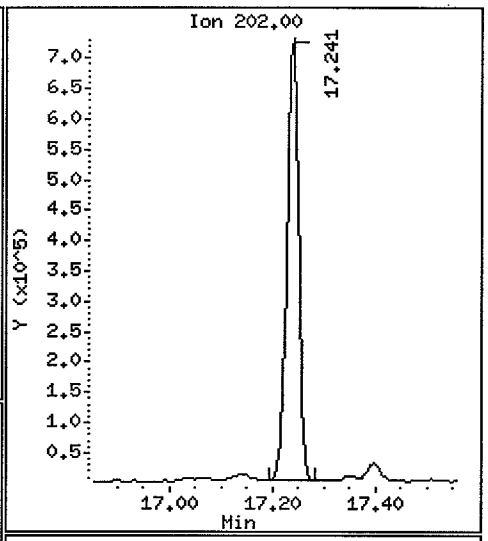
64 Fluoranthene Concentration: 408.1 ug/kg

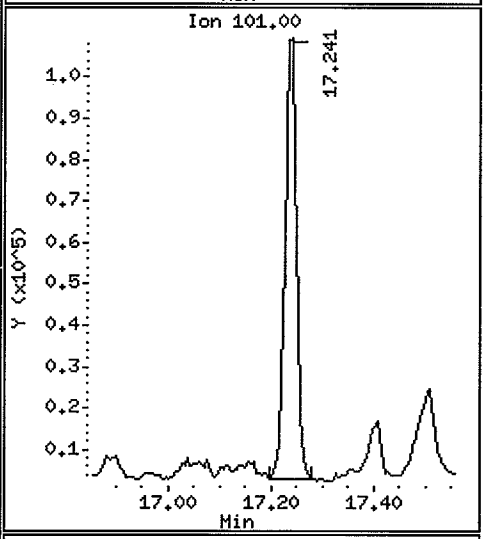


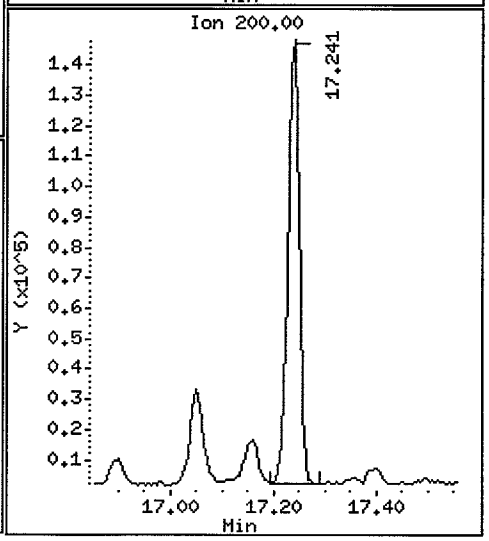












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

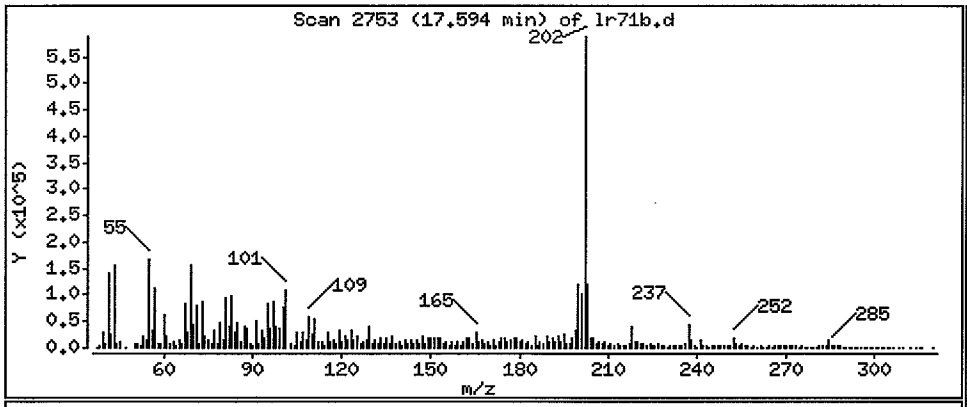
Client ID: AN-SS-02-070927 Instrument: nt6.i

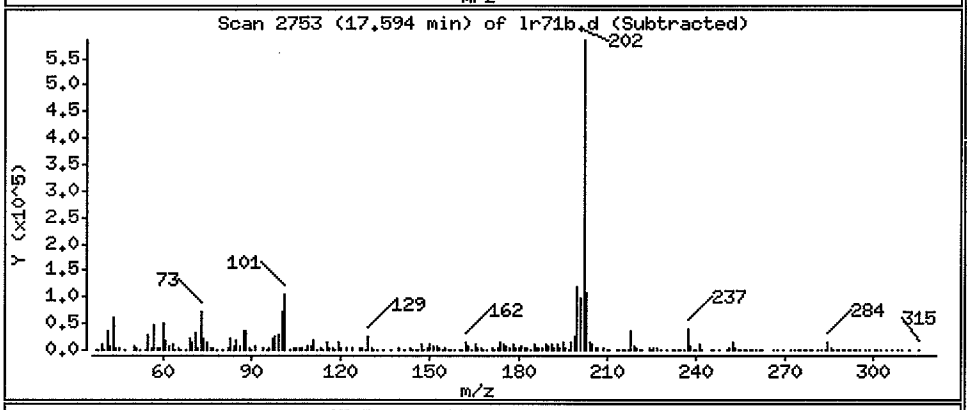
Sample Info: LR71B

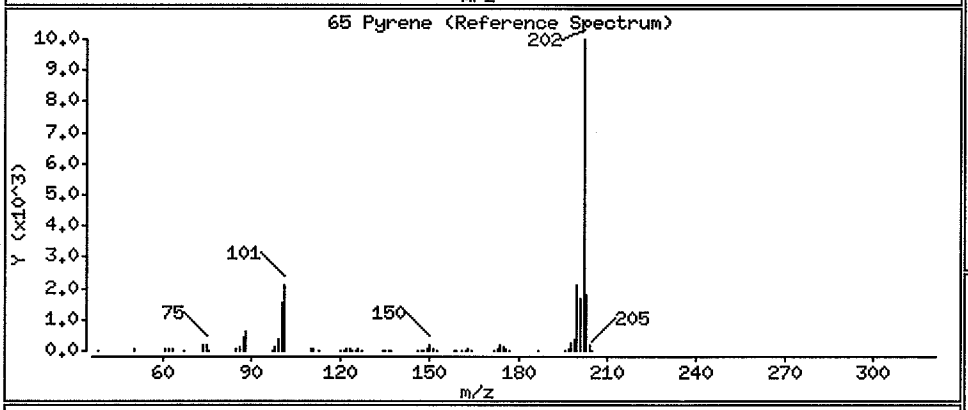
Volume Injected (uL): 1.0 Operator: LJR/VTS

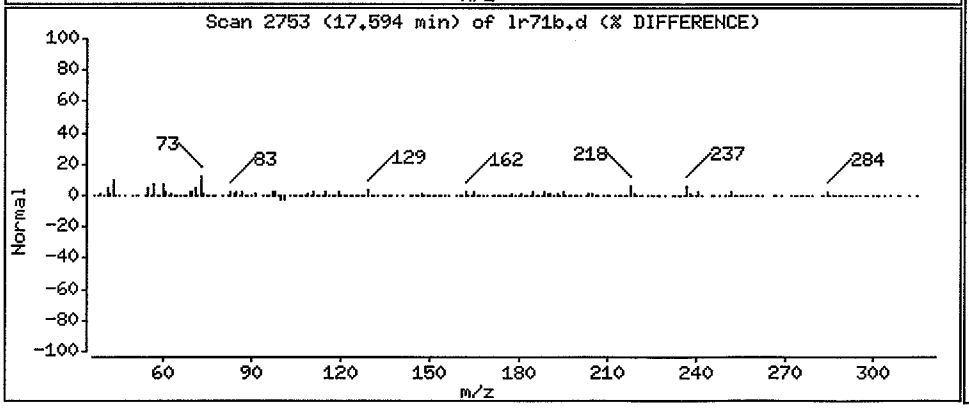
Column phase: ZB-5 Column diameter: 0.32

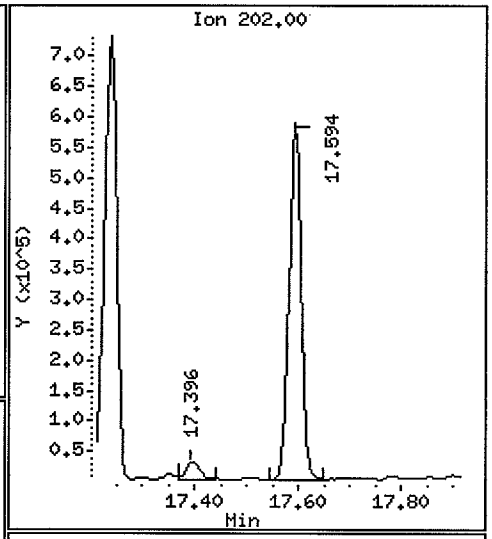
65 Pyrene Concentration: 290.9 ug/kg

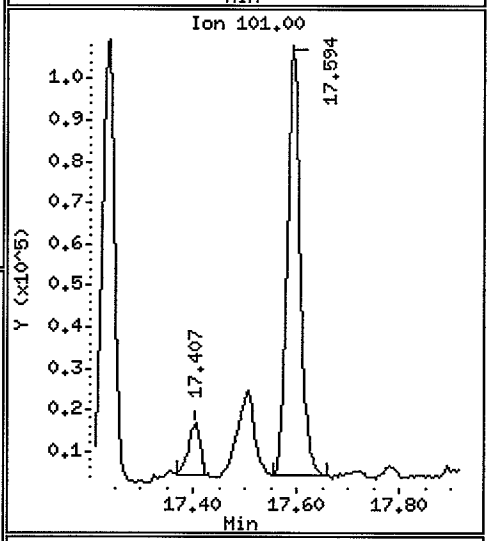


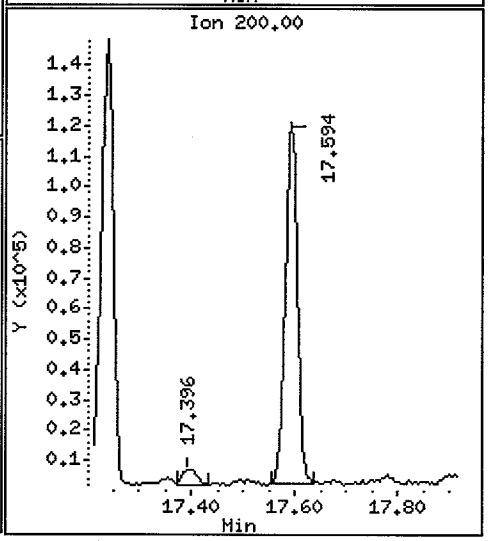












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

Client ID: AN-SS-02-070927

Instrument: nt6.i

Sample Info: LR71B

Volume Injected (uL): 1.0

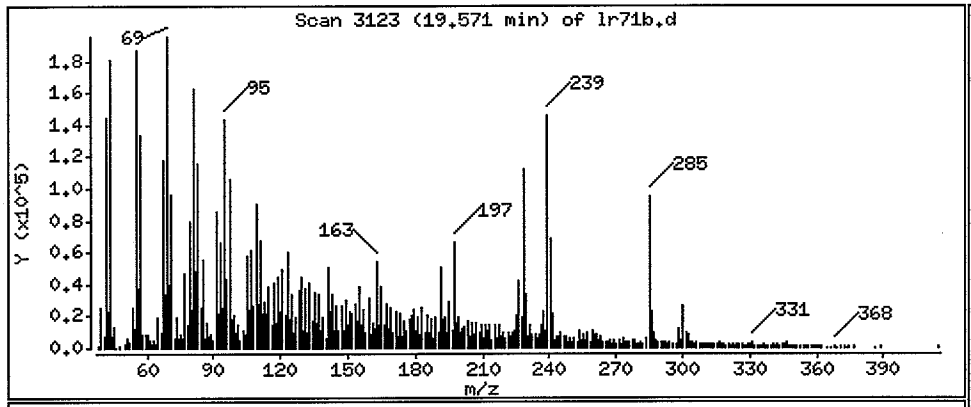
Operator: LJR/VTS

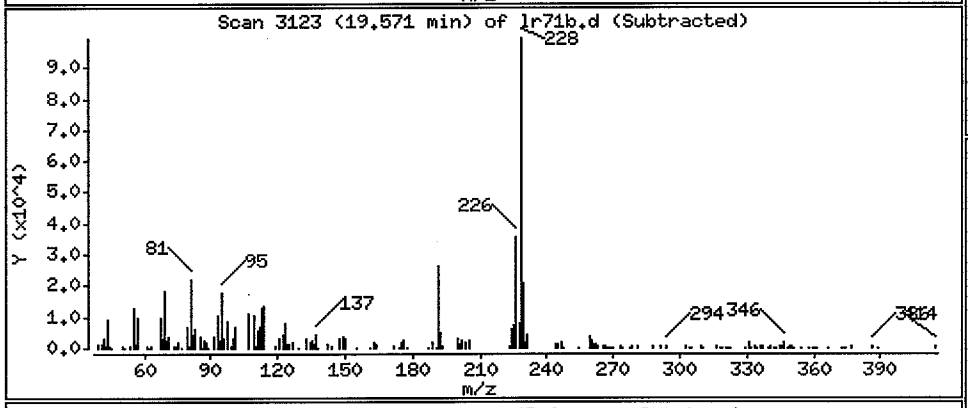
Column phase: ZB-5

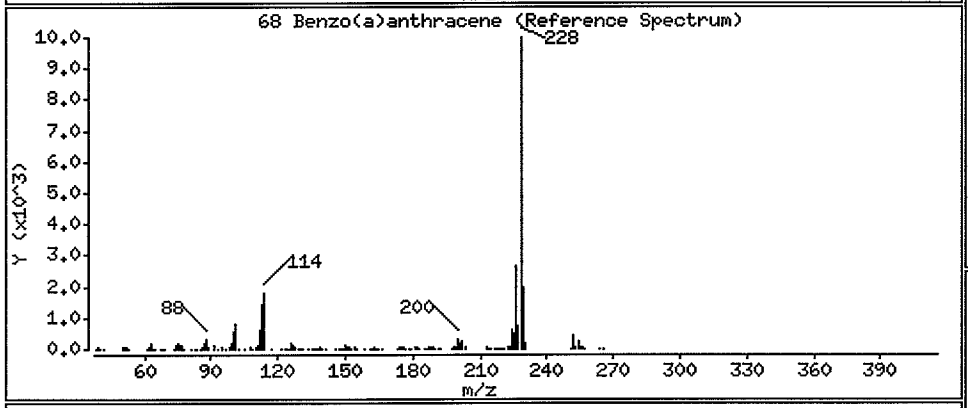
Column diameter: 0.32

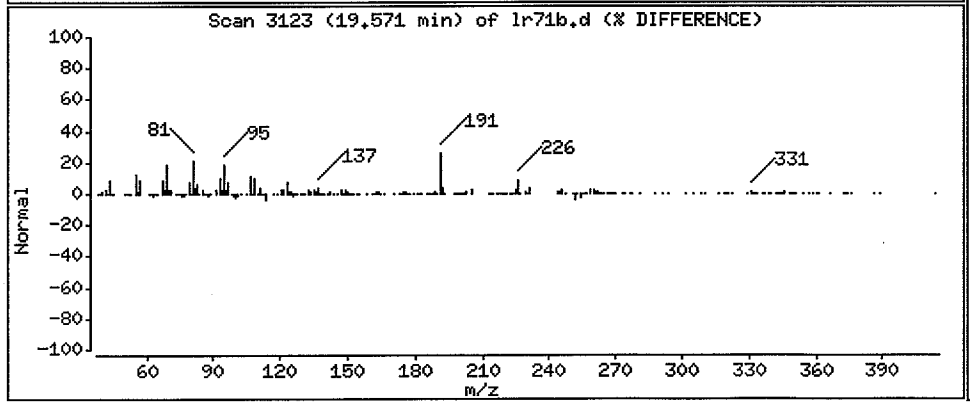
68 Benzo(a)anthracene

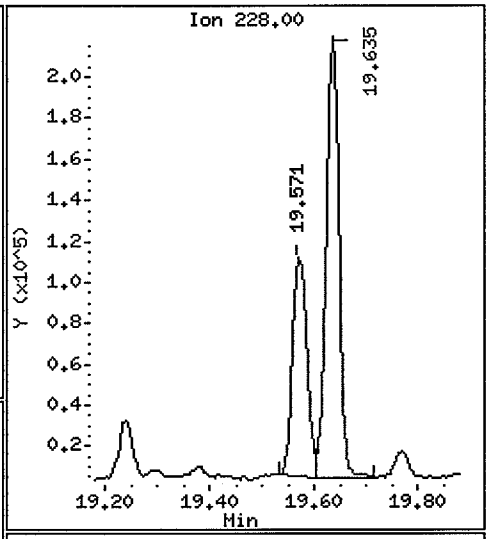
Concentration: 56.05 ug/kg

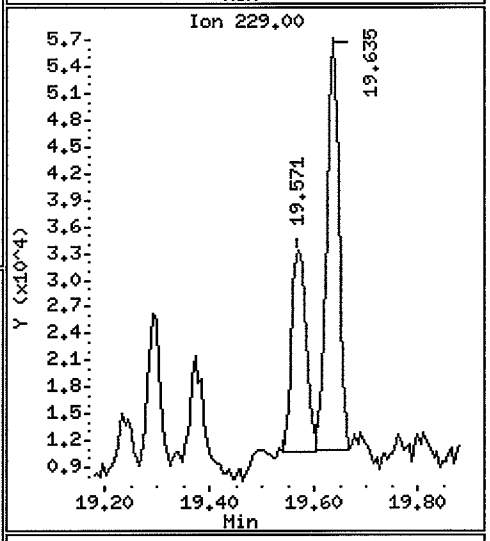


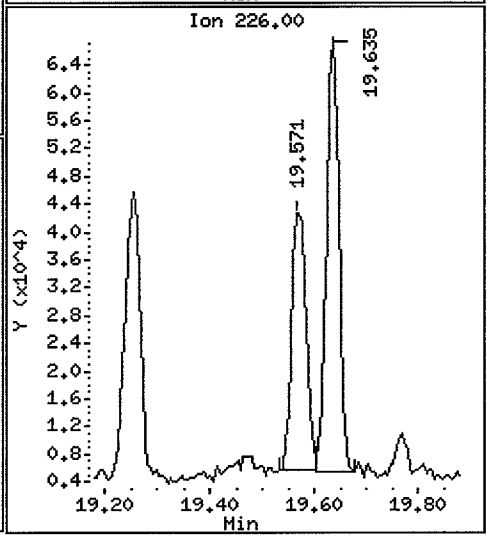












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

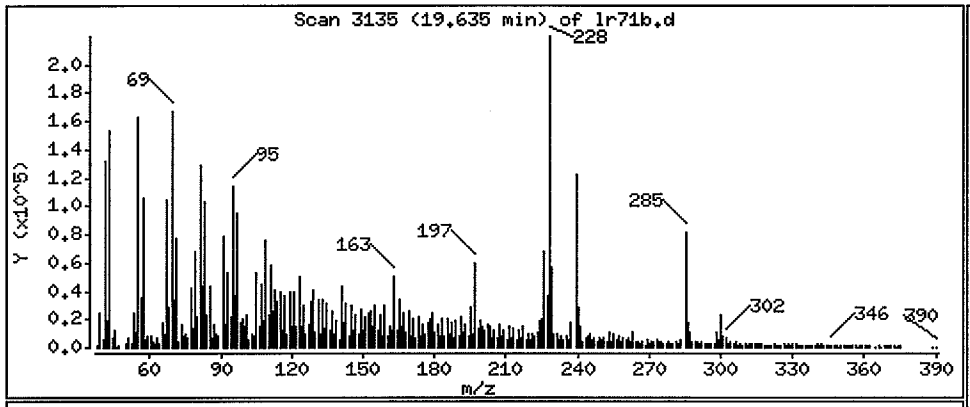
Client ID: AN-SS-02-070927 Instrument: nt6.i

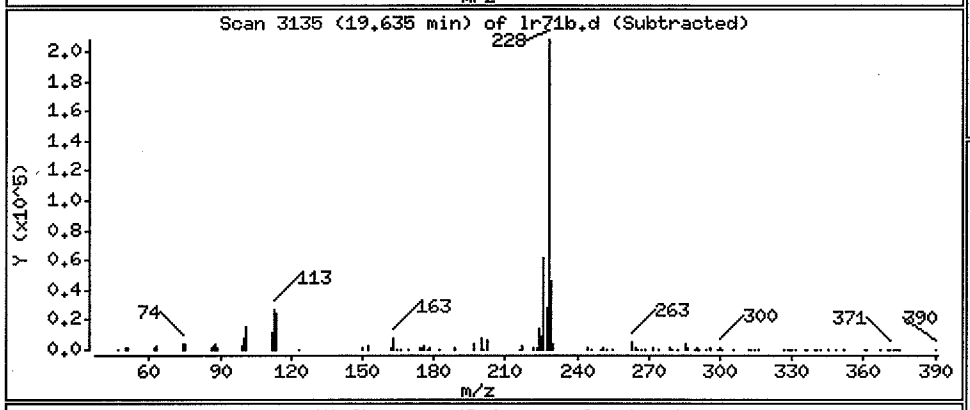
Sample Info: LR71B

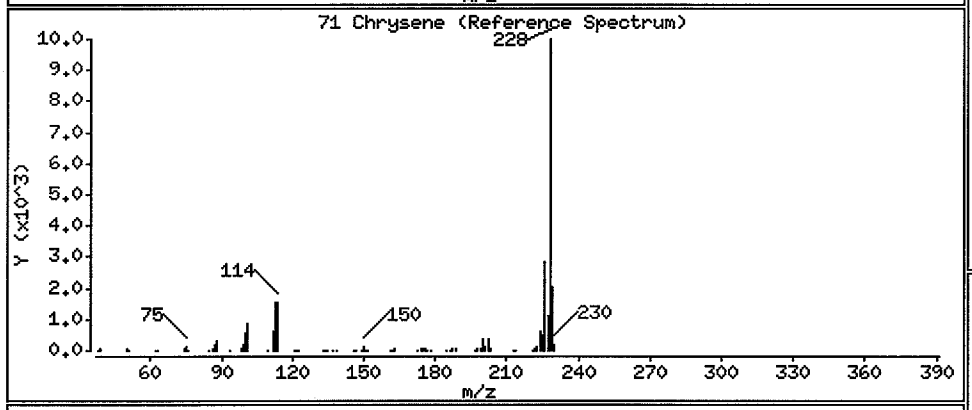
Volume Injected (uL): 1.0 Operator: LJR/VTS

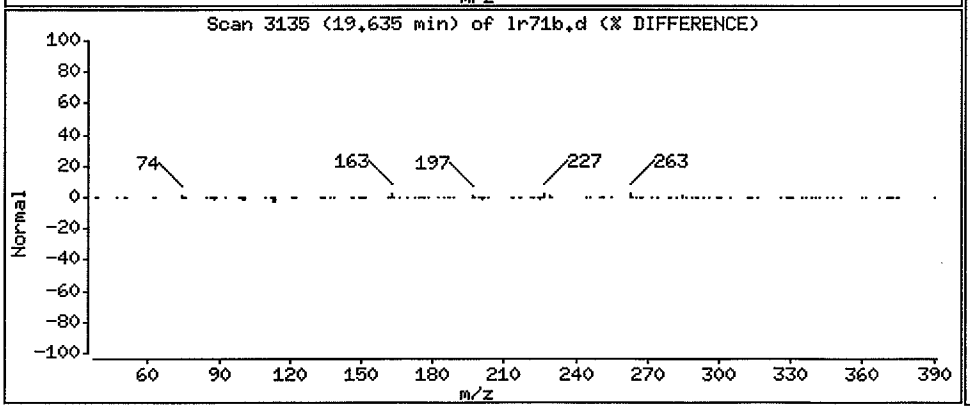
Column phase: ZB-5 Column diameter: 0.32

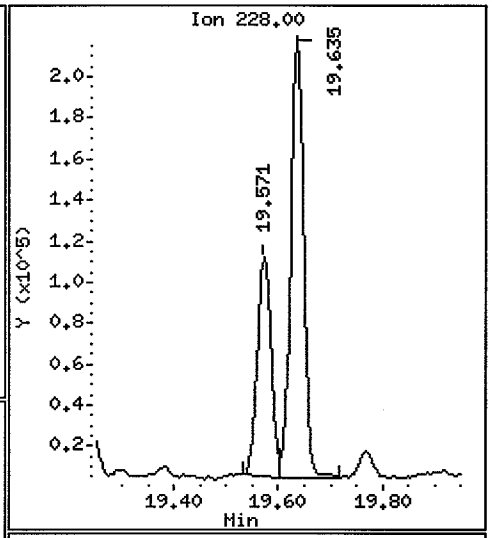
71 Chrysene Concentration: 113.0 ug/kg

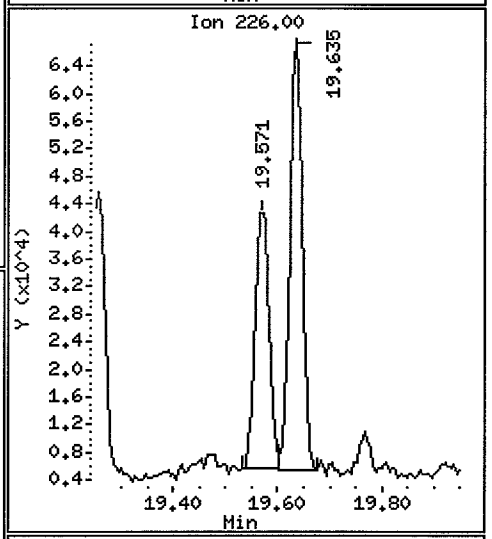


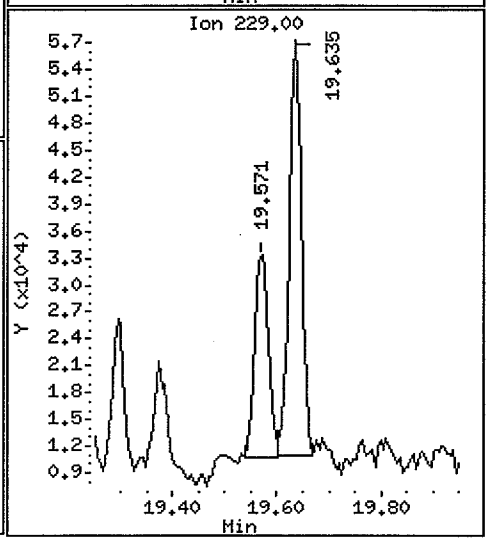












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

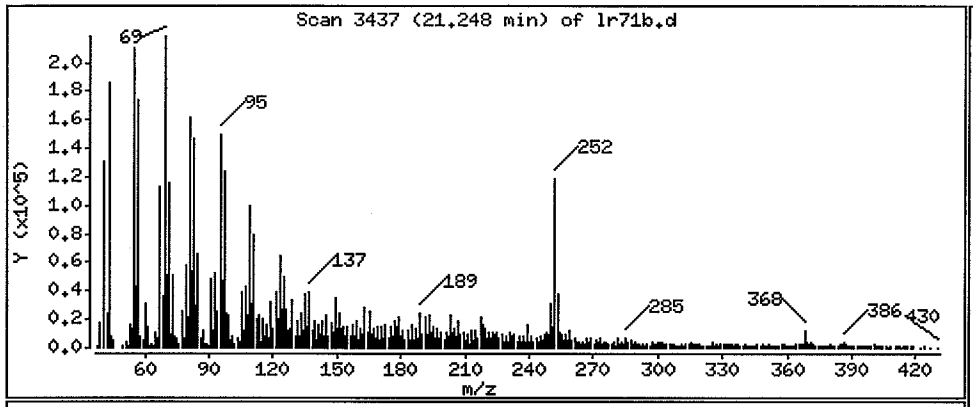
Client ID: AN-SS-02-070927 Instrument: nt6.i

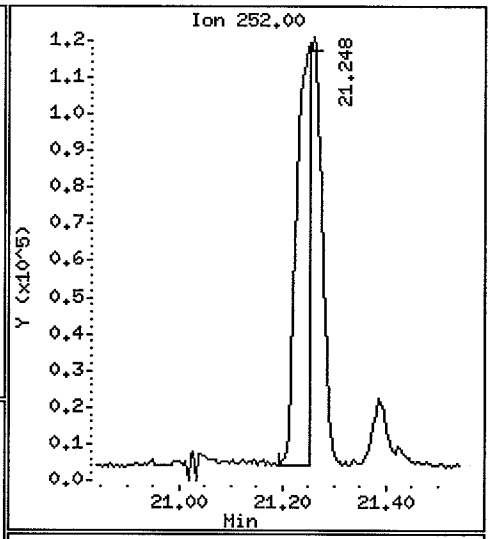
Sample Info: LR71B

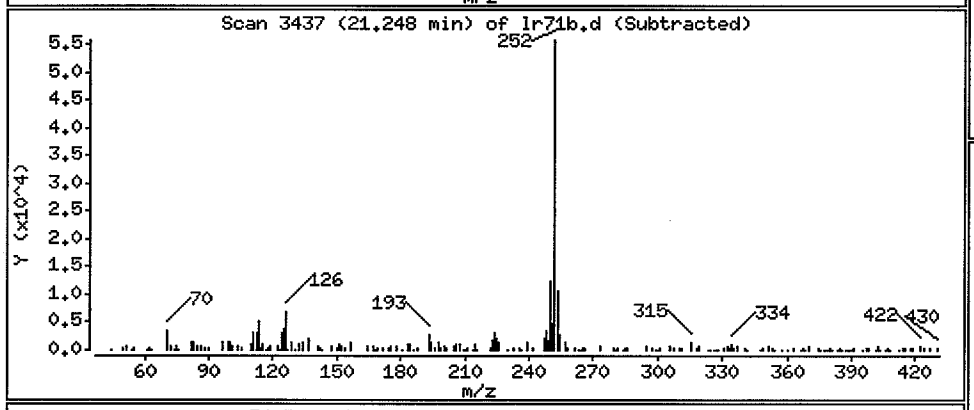
Volume Injected (uL): 1.0 Operator: LJR/VTS

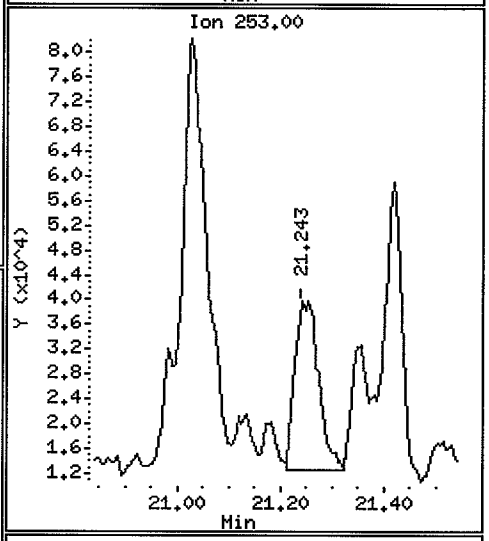
Column phase: ZB-5 Column diameter: 0.32

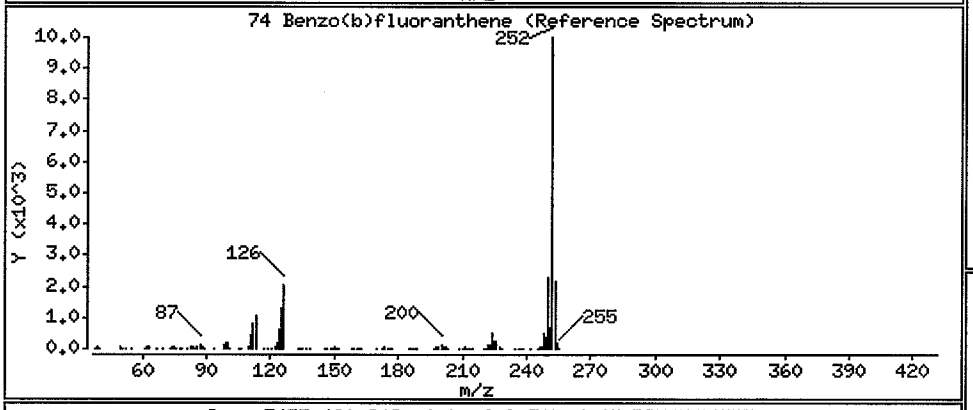
74 Benzo(b)fluoranthene Concentration: 88.11 ug/kg

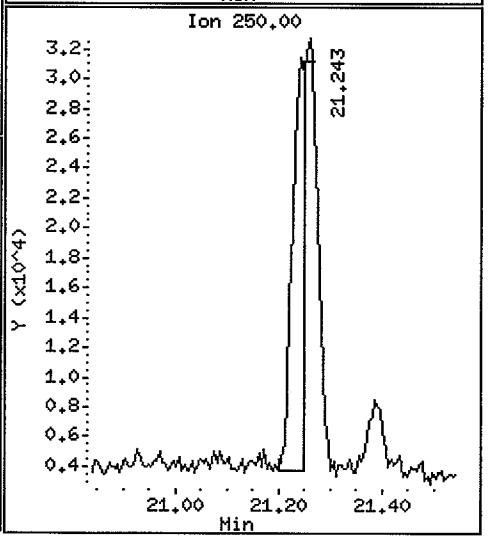


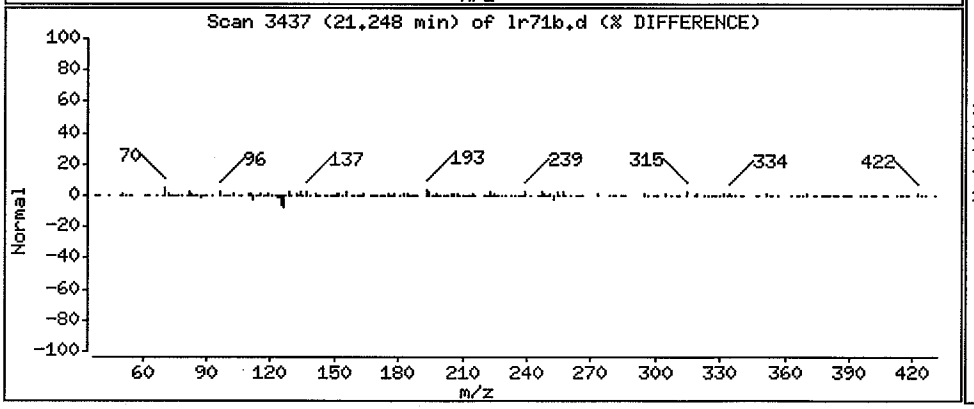












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

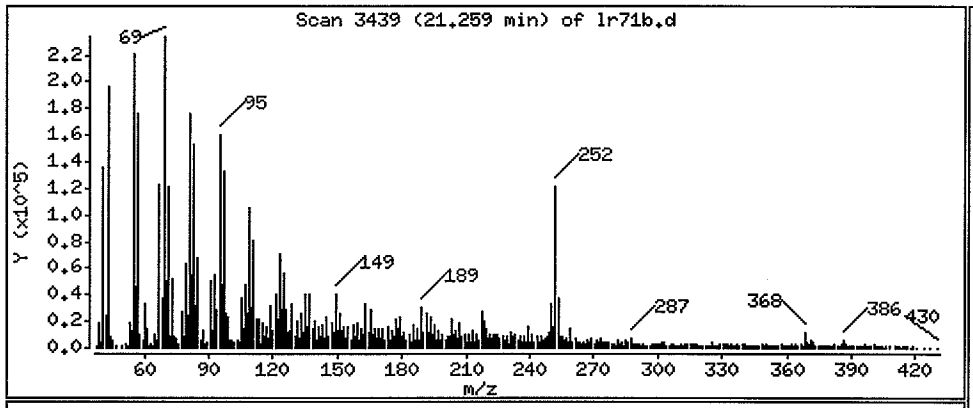
Client ID: AN-SS-02-070927 Instrument: nt6.i

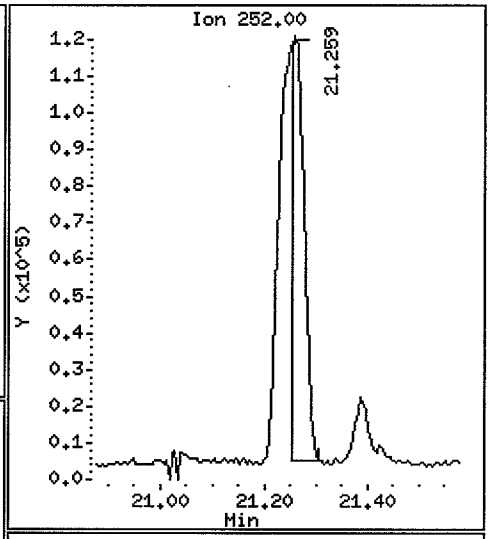
Sample Info: LR71B

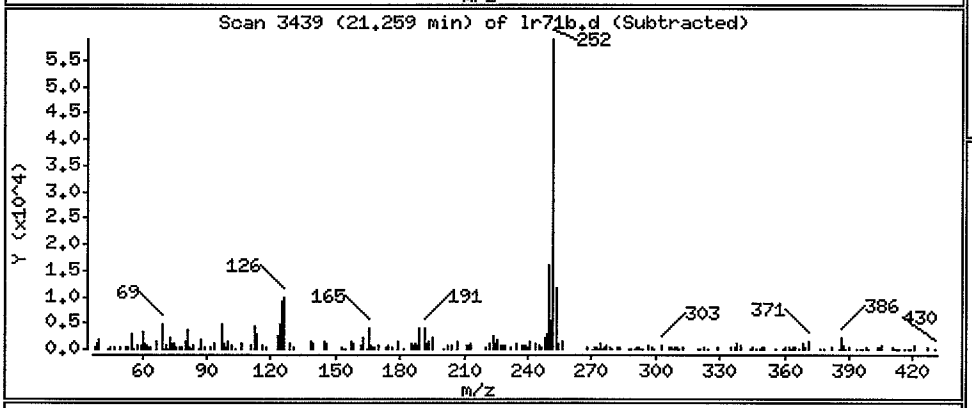
Volume Injected (uL): 1.0 Operator: LJR/VTS

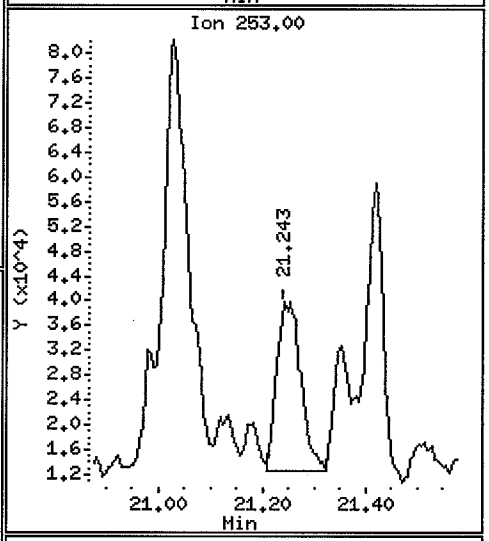
Column phase: ZB-5 Column diameter: 0.32

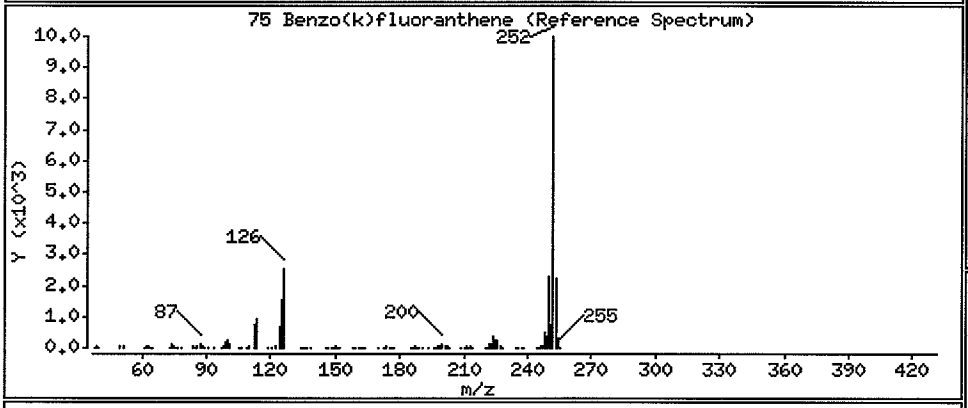
75 Benzo(k)fluoranthene Concentration: 73.40 ug/kg

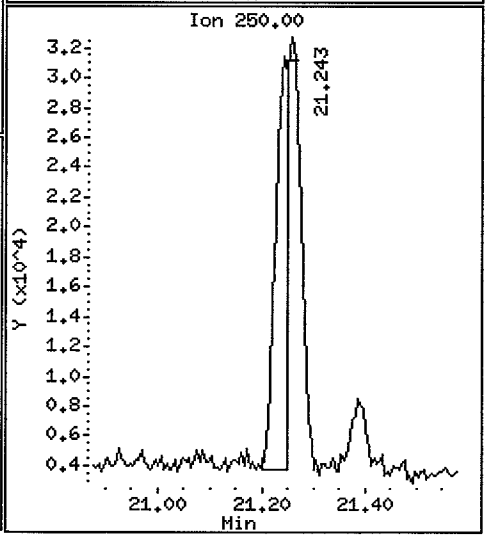


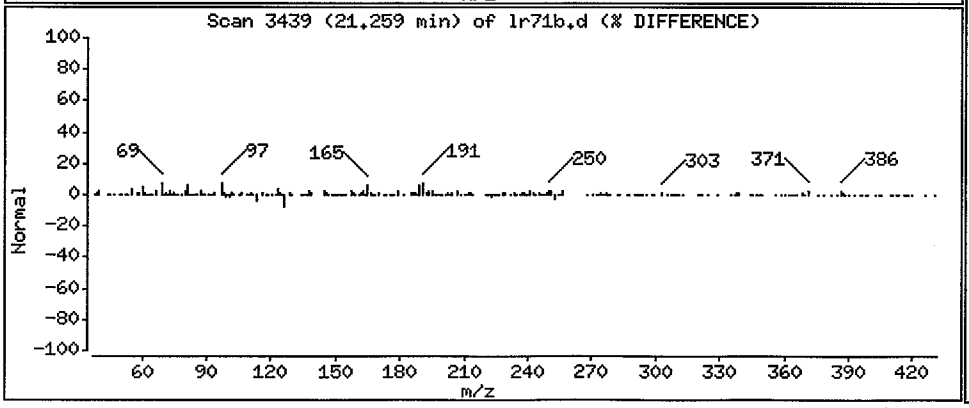












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

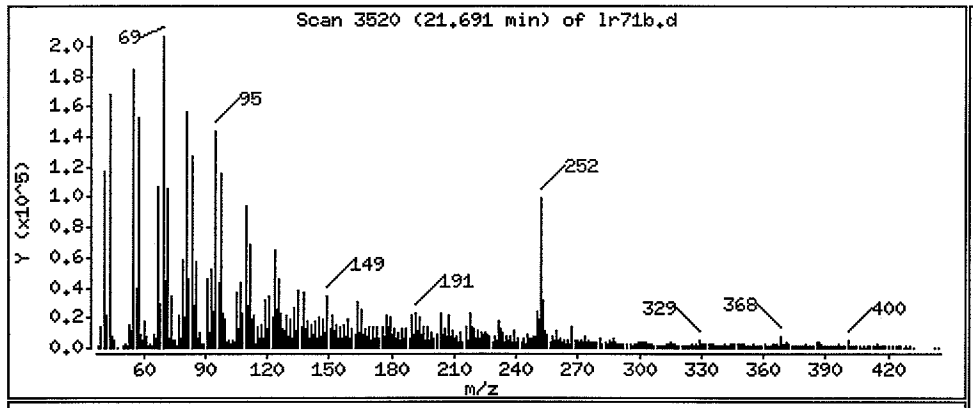
Client ID: AN-SS-02-070927 Instrument: nt6.i

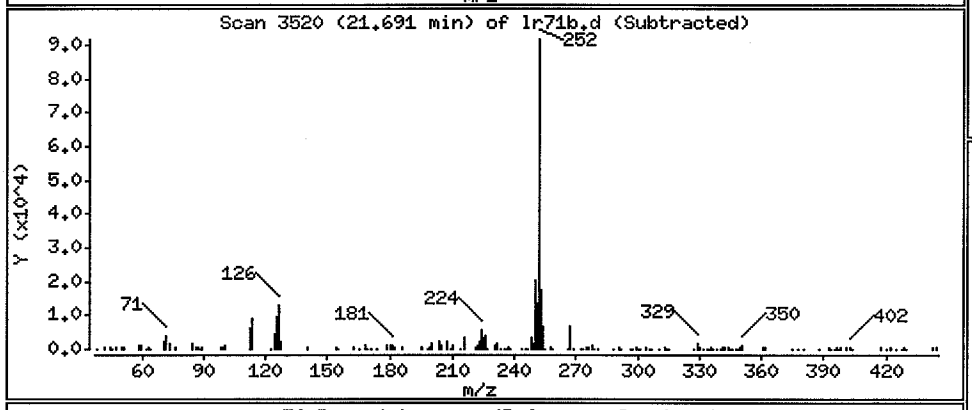
Sample Info: LR71B

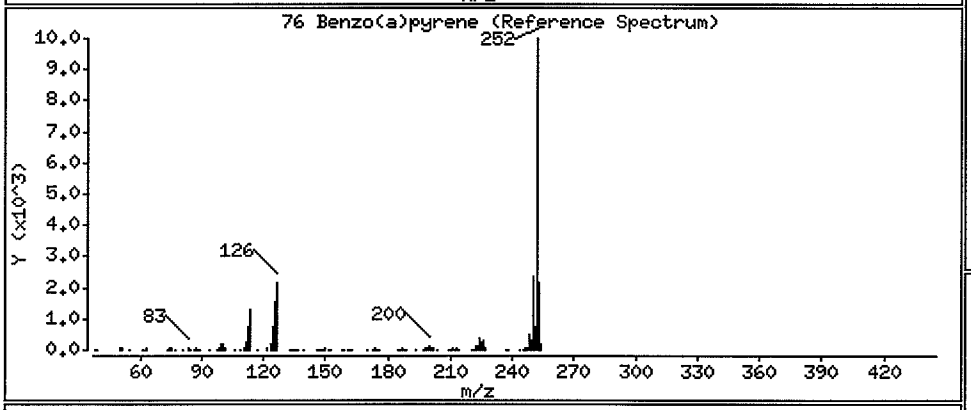
Volume Injected (uL): 1.0 Operator: LJR/VTS

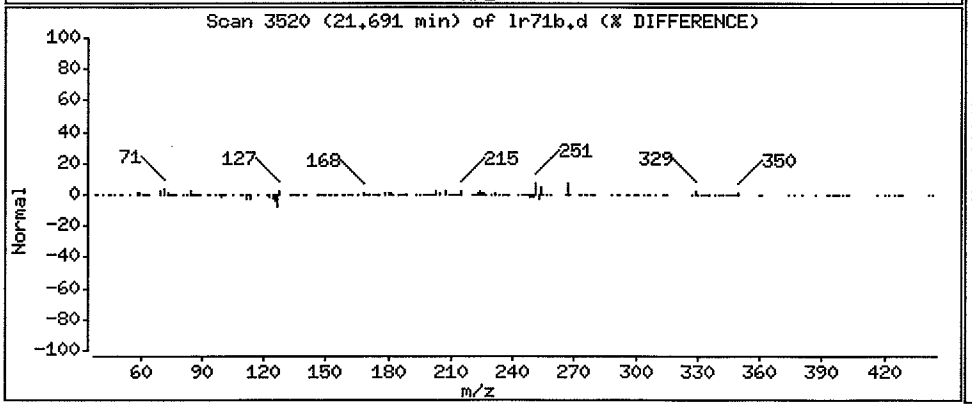
Column phase: ZB-5 Column diameter: 0.32

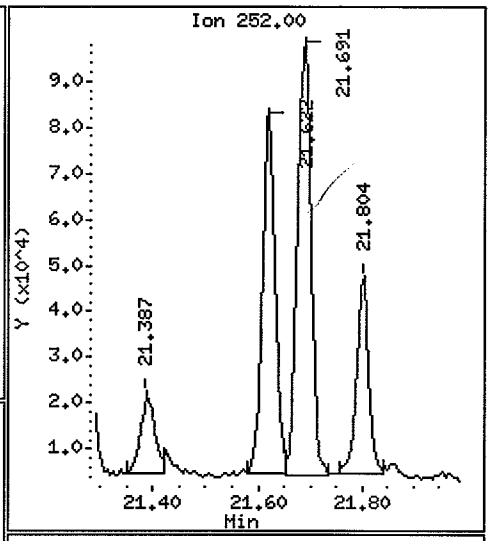
76 Benzo(a)pyrene Concentration: 74.85 ug/kg

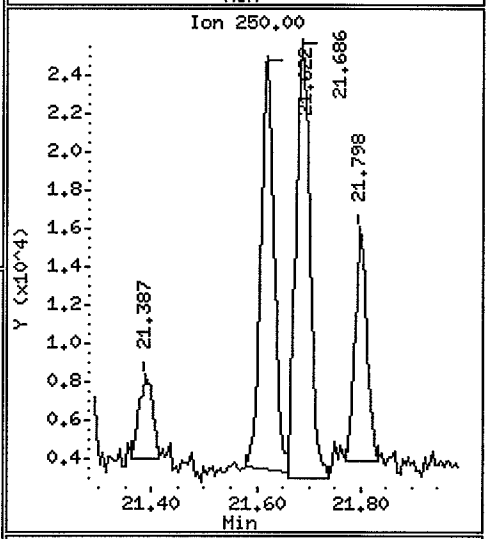


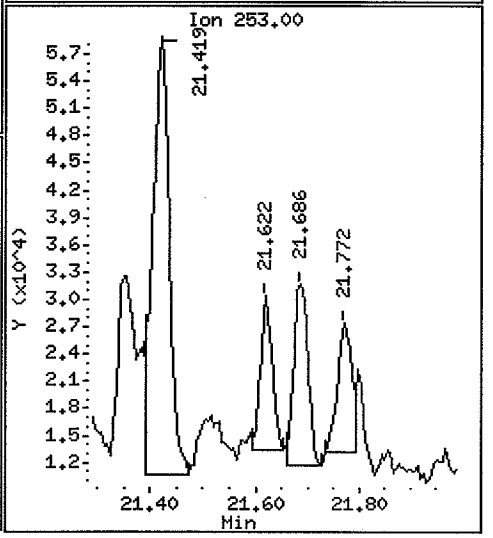












Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

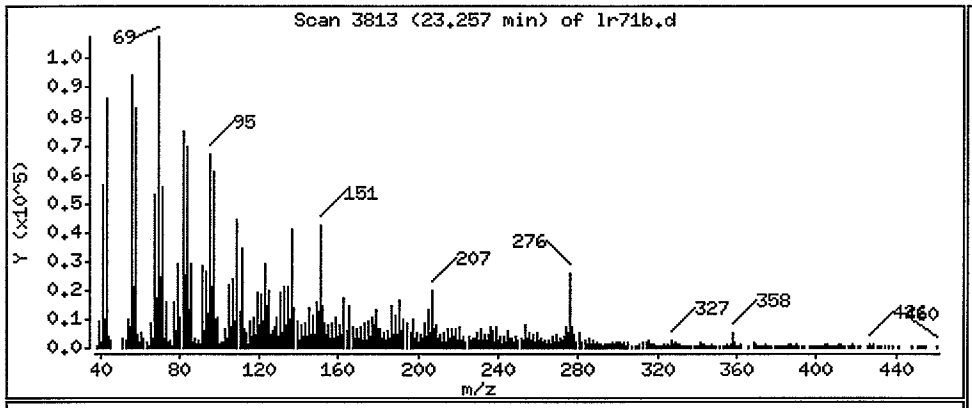
Client ID: AN-SS-02-070927 Instrument: nt6.i

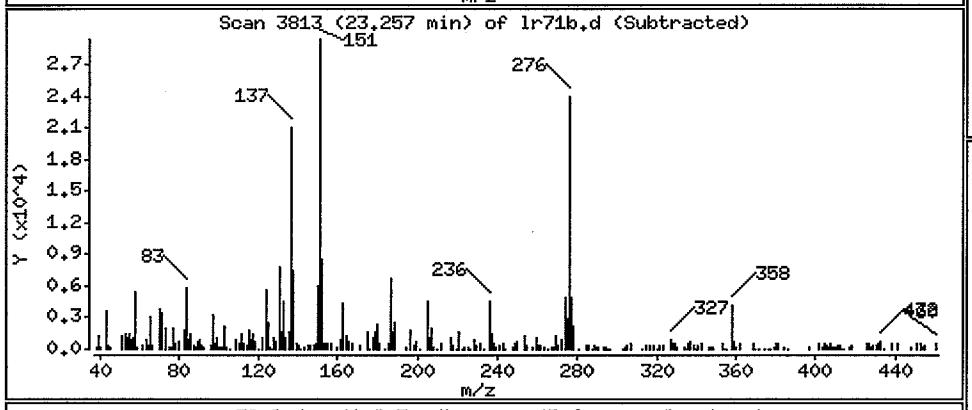
Sample Info: LR71B

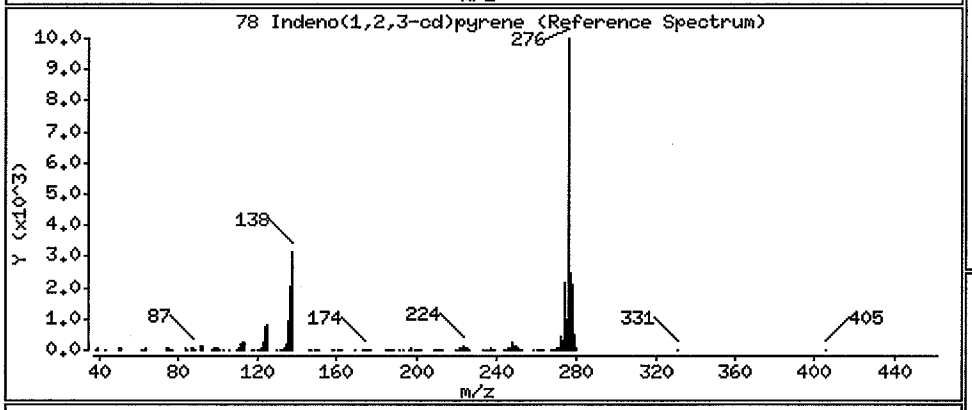
Volume Injected (uL): 1.0 Operator: LJR/VTS

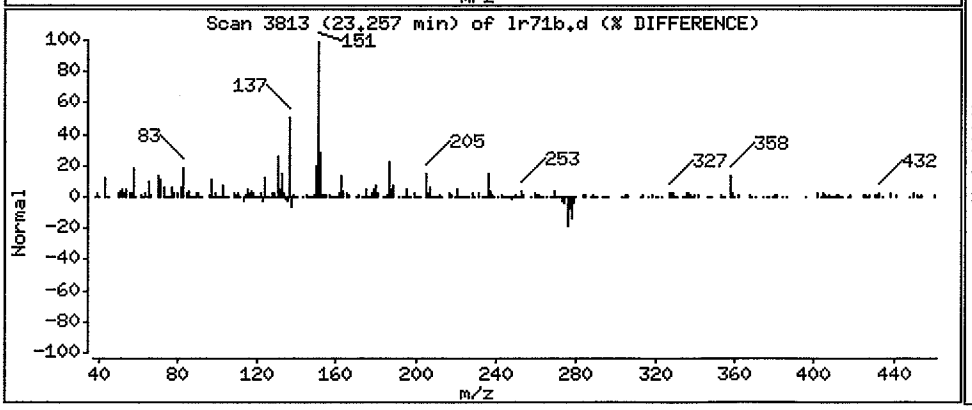
Column phase: ZB-5 Column diameter: 0.32

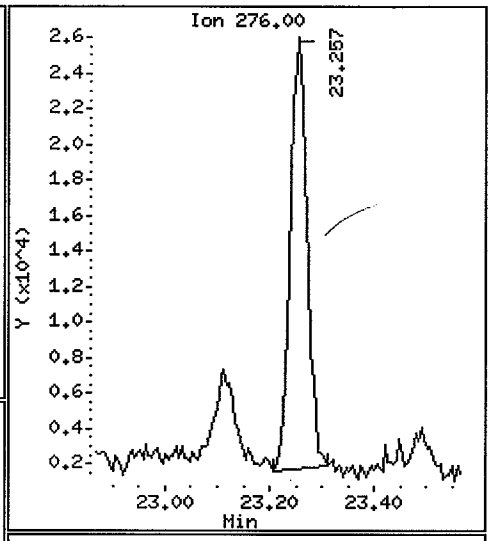
78 Indeno(1,2,3-cd)pyrene Concentration: 19.98 ug/kg

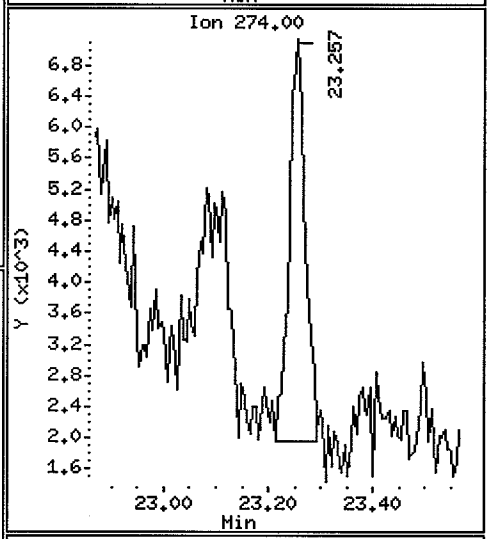


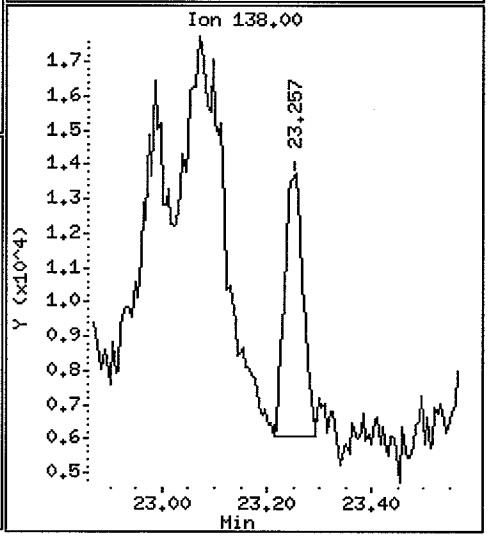




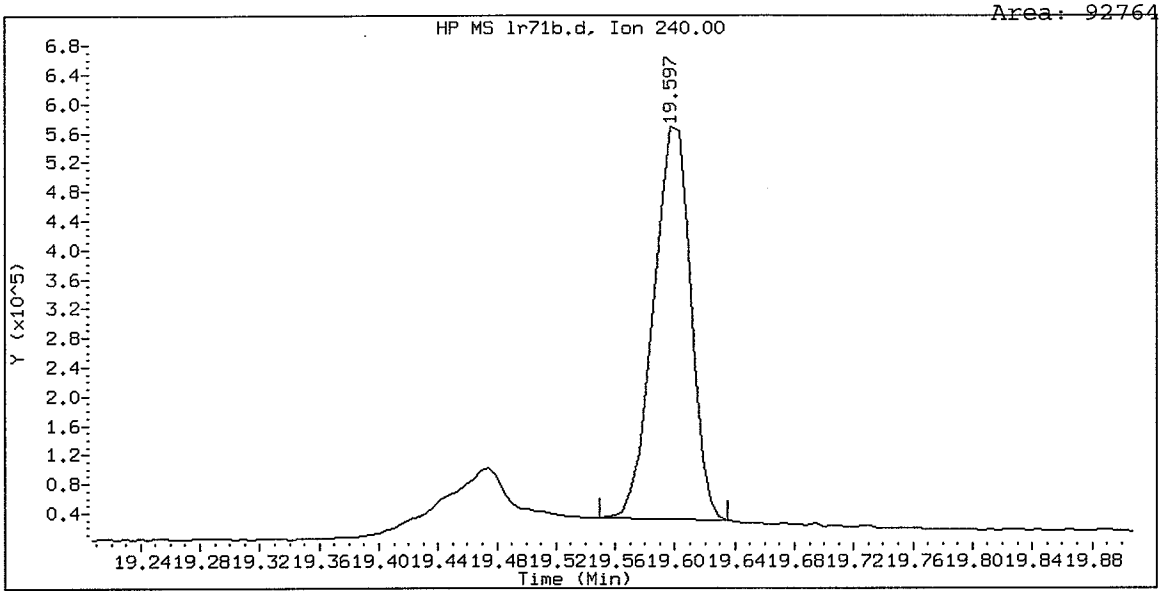


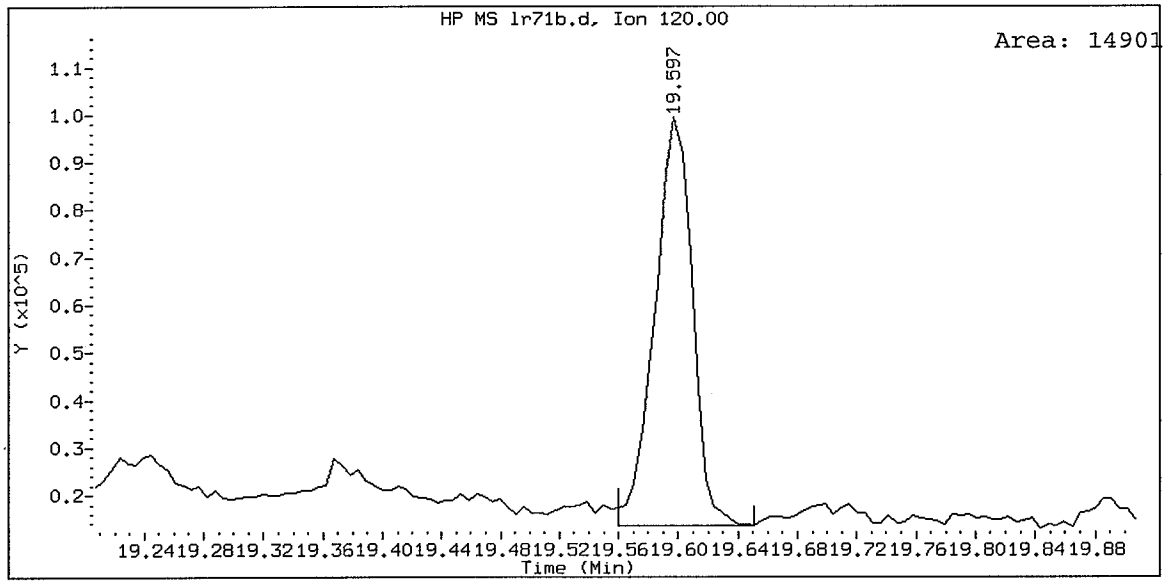


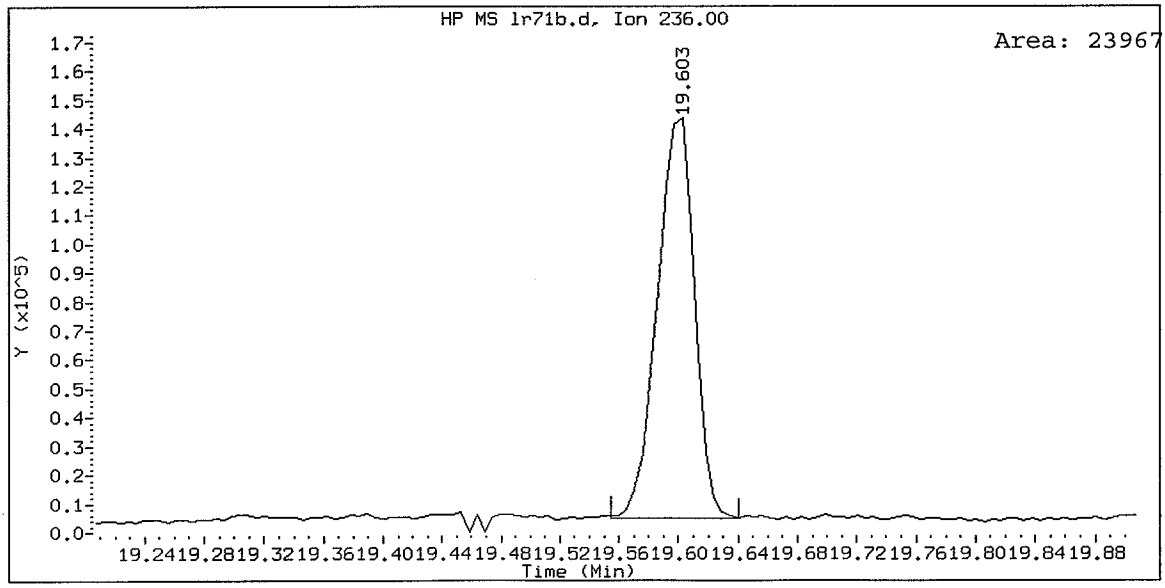




LR71B, /chem1/nt6.i/20071018.b/lr71b.d
Chrysene-d12 Amount: 20.00







Data File: /chem1/nt6.i/20071018.b/lr71b.d

Date : 18-OCT-2007 15:13

Client ID: AN-SS-02-070927

Instrument: nt6.i

Sample Info: LR71B

Volume Injected (uL): 1.0

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

3 Phenol

Concentration: 10.22 ug/kg

